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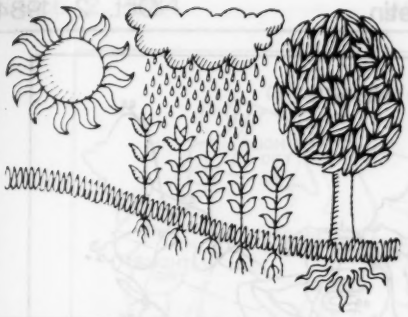

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration, National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service and World Agricultural Outlook Board

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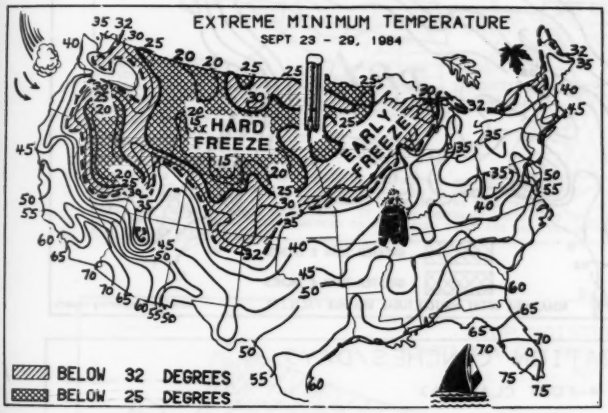
National Weather Summary

September 23 to 29, 1984



HIGHLIGHTS: Record cold weather pushed into central United States from Canada in early week and by the week's end, colder than normal weather spread over all the Nation except parts of the gulf coast and California. Freezing weather spread over the Rockies and Plateau, into the central Plains, the western Corn Belt, and western Great Lakes. Tropical Storm Isidore moved over the Florida Peninsula and then northward along the east coast before veering out to sea off North Carolina. The storm spread heavy rain along the coast and over Florida, but the rain did not reach very far inland. Moderate to heavy rain fell from Arizona to central Texas, and northeastward to the Great Lakes.

SUNDAY...Snow fell from the northern Rockies into the Dakotas, and rain extended through the Great Lakes region. Moderate showers fell from central Minnesota to northern Michigan. Moderate showers also fell from the Missouri bootheel into the lower Ohio Valley. Scattered showers covered the lower Lakes region and into Pennsylvania and New York.

MONDAY...Light snow continued in the northern Rockies and into the northern Plains where it changed to rain and extended through the Great Lakes. Thunderstorms produced moderate showers with some severe weather from eastern Iowa to northern Michigan. Freezing weather pushed into the northern Plains. Afternoon highs reached the nineties in Iowa.

TUESDAY...A line of thunderstorms produced moderate showers along a line from west central Texas to the eastern Great Lakes. Lighter showers fell on both sides of the line and over the southern Rockies. Temperatures were in the twenties and teens through the northern Rockies and into Oregon, Nevada, northern Colorado, and into the northern Plains.

WEDNESDAY...Unseasonably cold air settled over much of the Plains and northern Mississippi Valley. Freezing temperatures reached as far south as northern Kansas. Showers were generally light but very beneficial from Arizona to northern Texas and north through Kansas and into Missouri.

THURSDAY...Tropical Storm Isidore moved slowly onto the Florida Peninsula and spread heavy rain over most of the State. Light rain fell over most of the Plains to northern Texas, the Midwest, and from southern New England to North Carclina. Some moderate rain fell in Maryland. Cooler than normal temperatures spread over all the Nation except the gulf coast and California.

FRIDAY...Tropical Storm Isidore moved northward along the coast, spreading moderate to heavy rain from northern Florida to North Carolina. The rain did not reach inland to the very dry soybean areas. Lighter rain fell through all of the mid-Atlantic States. Light rain also fell from southern and western Texas to eastern Colorado. Cool weather continued over most of the Nation.

SATURDAY...Another surge of cold air pushed freezing temperatures through the Plains to northern Kansas and over the western Corn Belt. Tropical Storm Isidore dumped heavy rain in eastern North Carolina before veering out to sea. Light showers fell in the mid-Atlantic States, southern Texas, the Texas Panhandle, and the Ohio Valley. Cool weather spread over most of the Nation.

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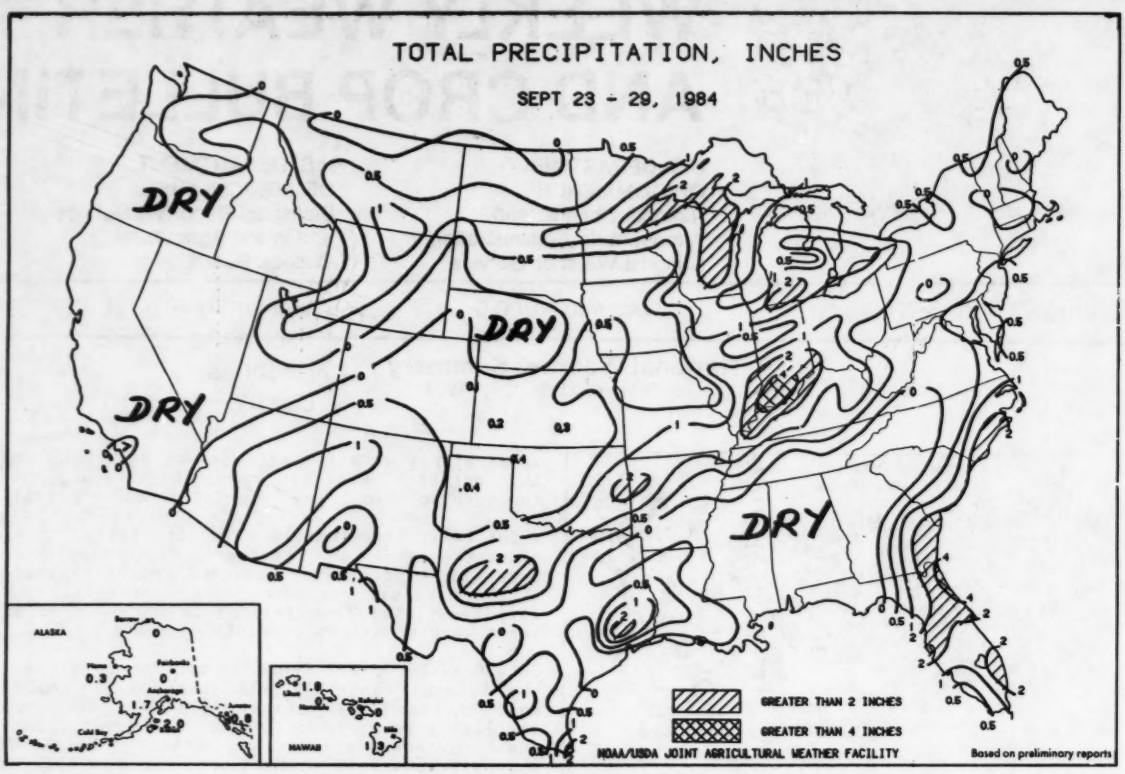
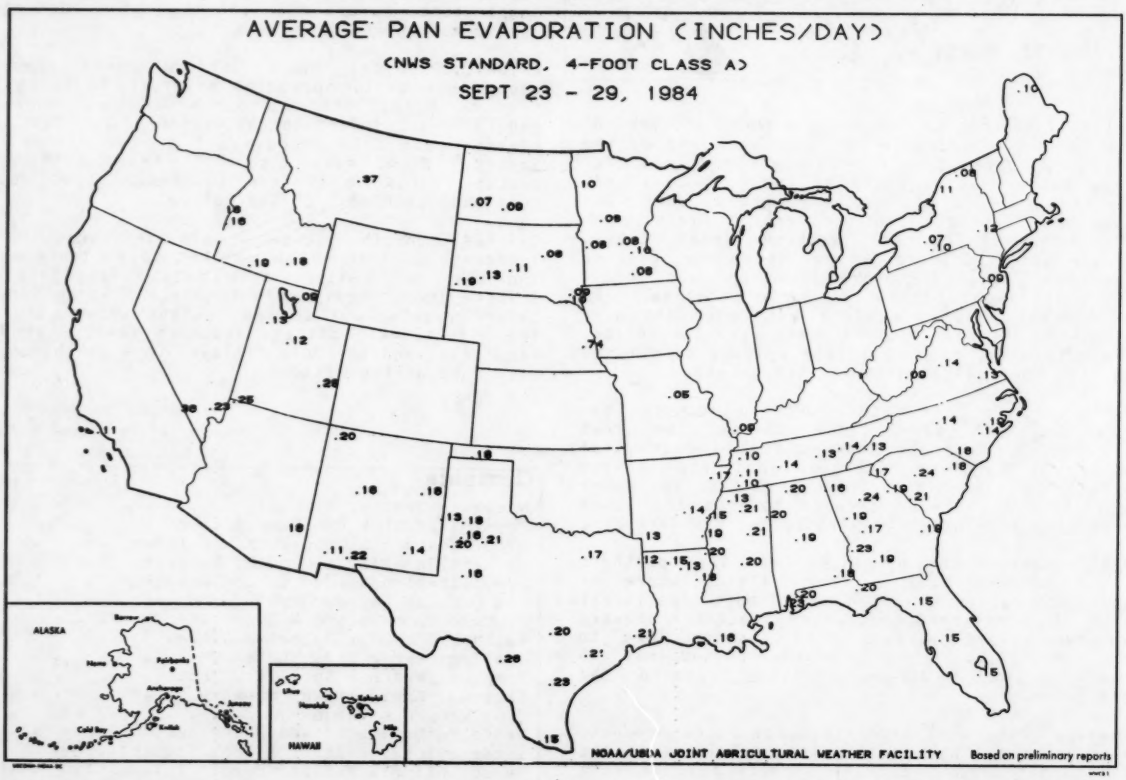
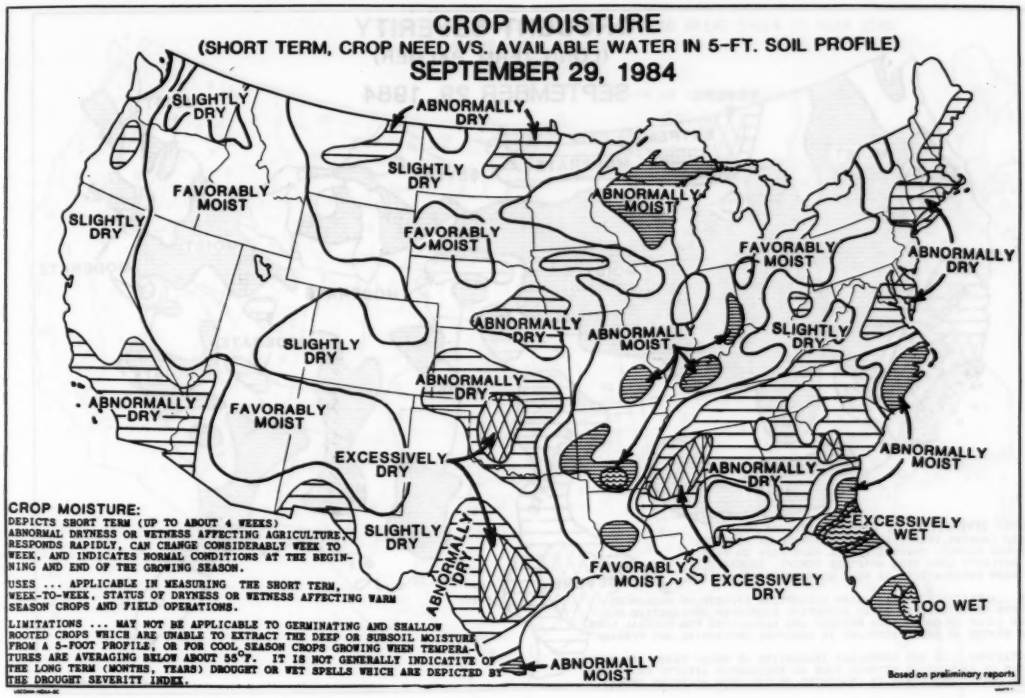
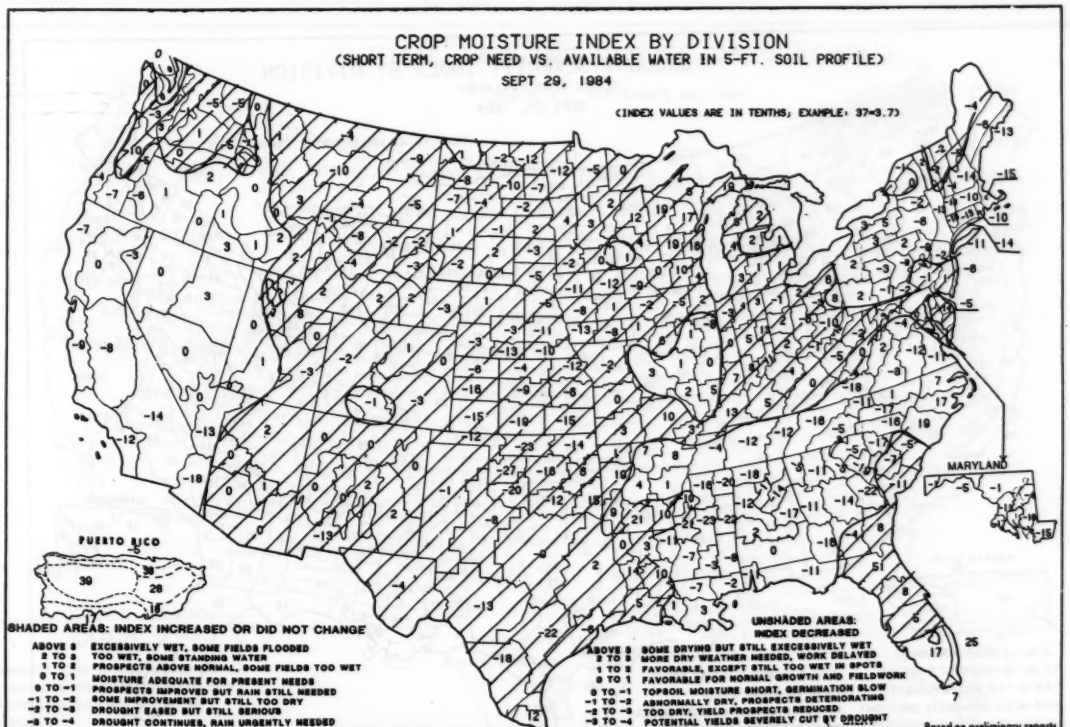
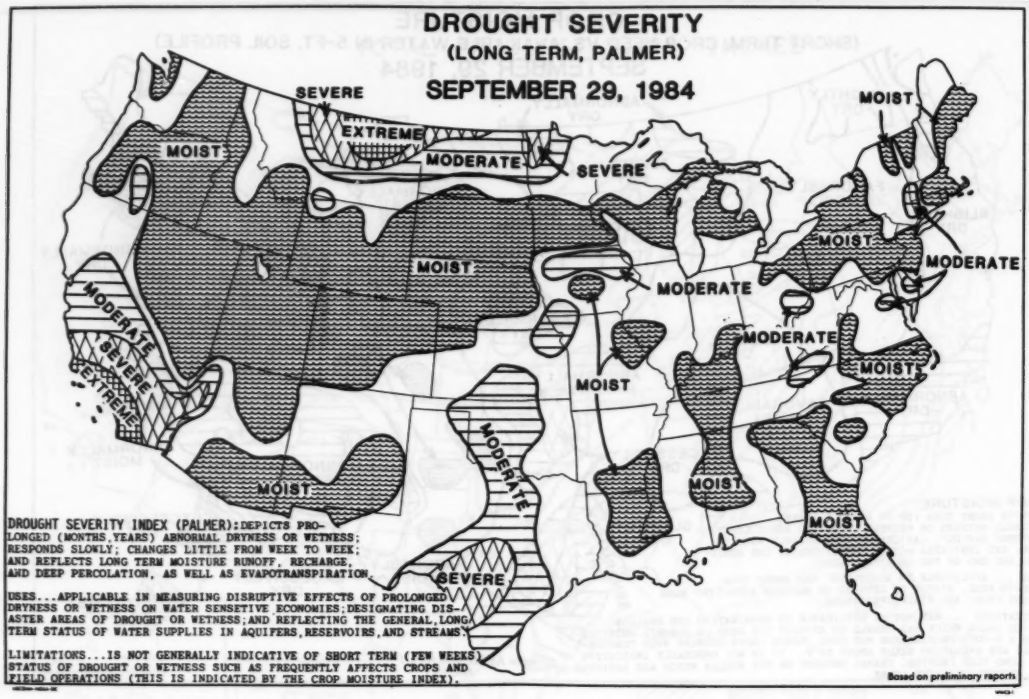
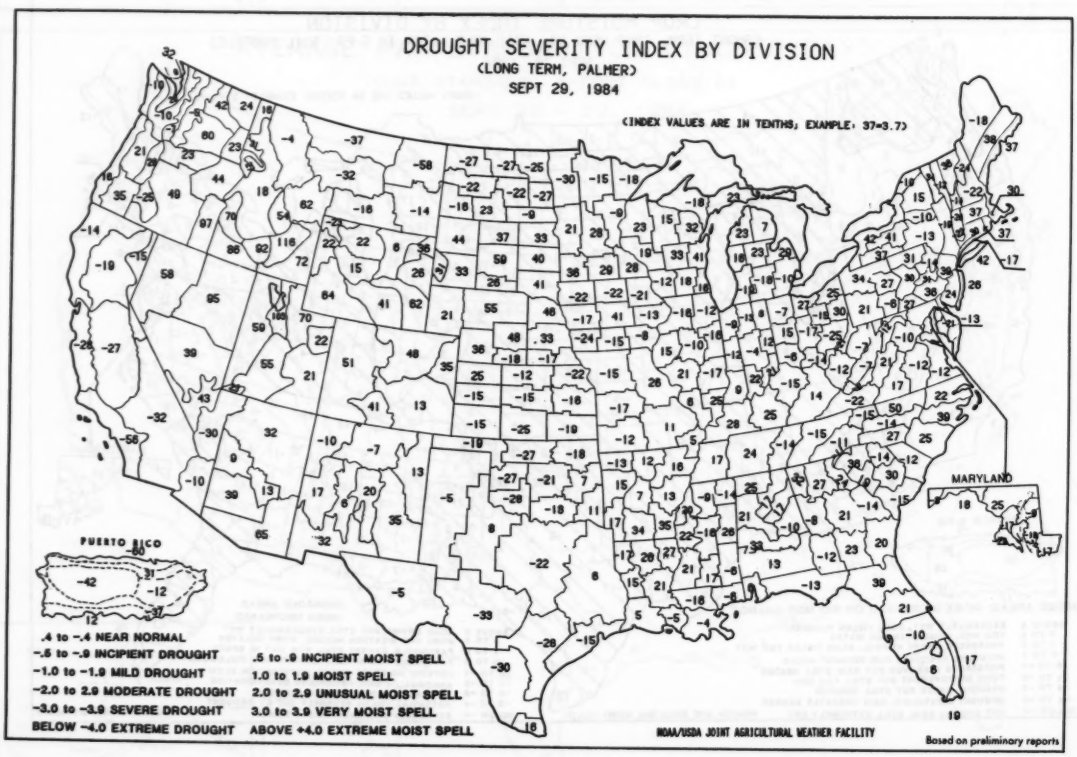

TOTAL PRECIPITATION, INCHES
SEPT 23 - 29, 1984
DRY
DRY
DRY
DRY
ALASKA
HAWAII
GREATER THAN 2 INCHES
GREATER THAN 4 INCHES
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

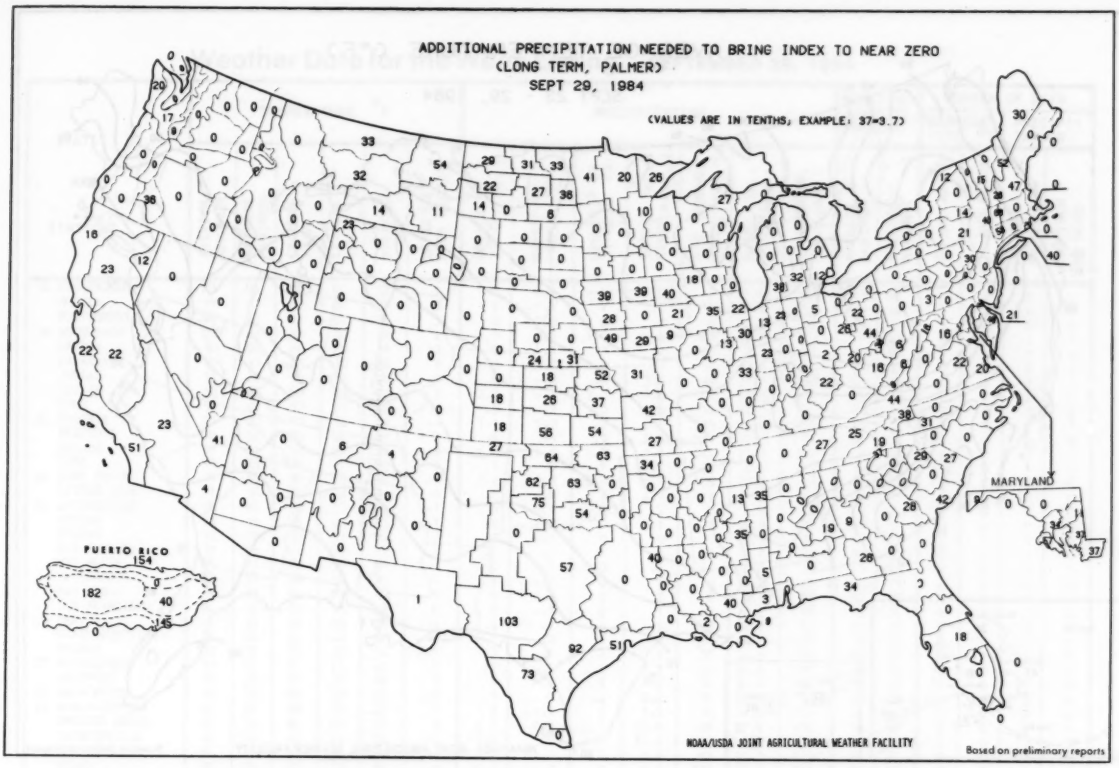

AVERAGE PAN EVAPORATION (INCHES/DAY)
(NWS STANDARD, 4-FOOT CLASS A)
SEPT 23 - 29, 1984
ALASKA
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

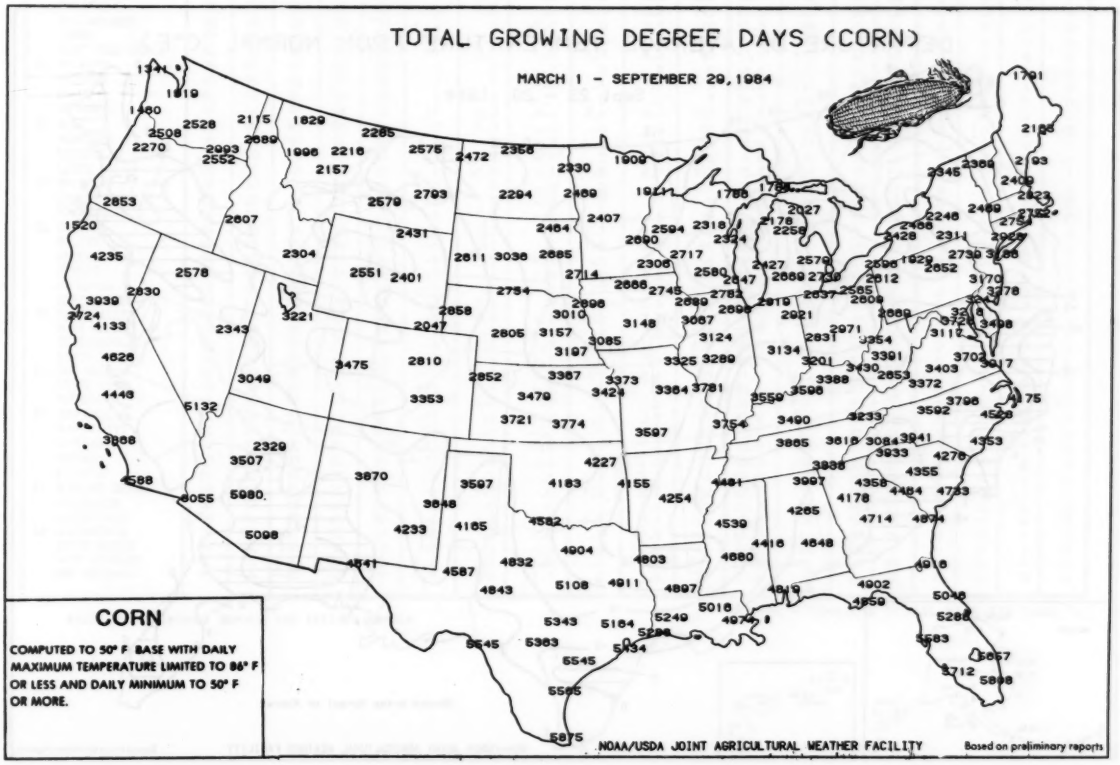

CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
SEPTEMBER 29, 1984
SLIGHTLY DRY
ABNORMALLY DRY
FAVORABLY MOIST
ABNORMALLY MOIST
EXCESSIVELY DRY
EXCESSIVELY WET
TOO WET
CROP MOISTURE:
DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE. RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.
USES ... APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.
LIMITATIONS ... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.
Based on preliminary reports

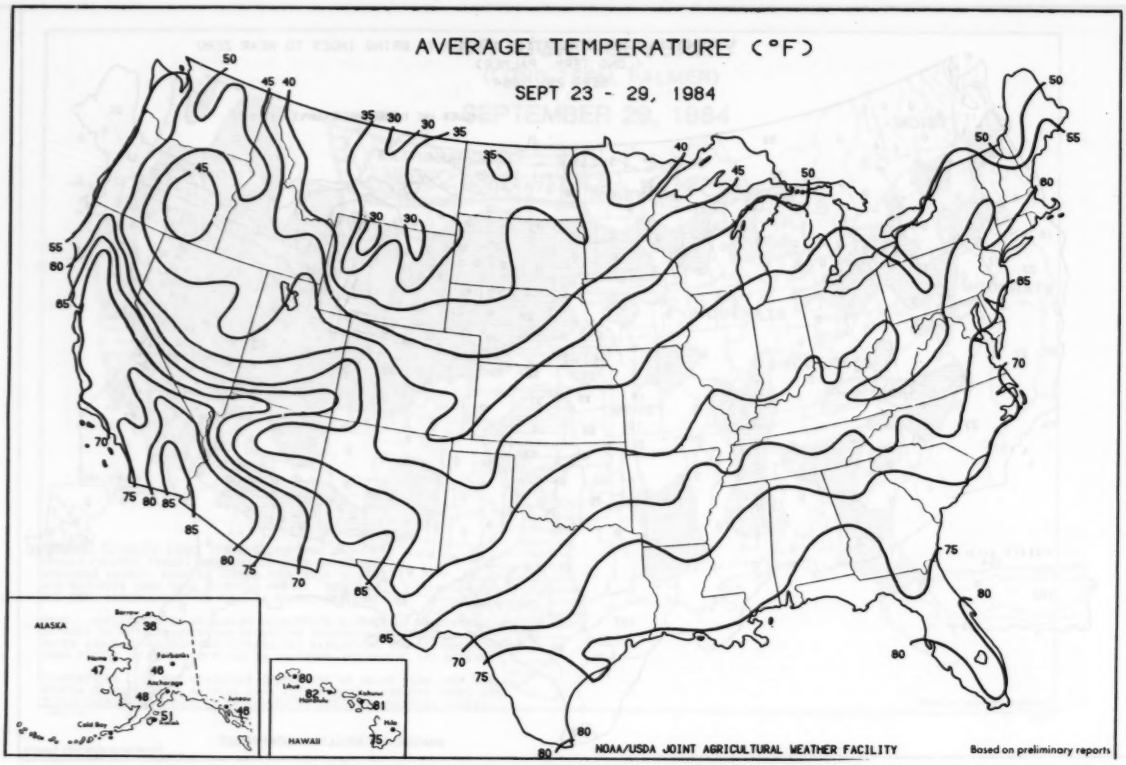

CROP MOISTURE INDEX BY DIVISION
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
SEPT 29, 1984
(INDEX VALUES ARE IN TENTHS; EXAMPLE: 37=3.7)
PUERTO RICO
MARYLAND
SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE
ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
2 TO 3 TOO WET, SOME STANDING WATER
1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
-2 TO -3 DROUGHT EASED BUT STILL SERIOUS
-3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY
UNSHADED AREAS: INDEX DECREASED
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEDED, WORK DELAYED
1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
-2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW -4 EXTREMELY DRY, MOST CROPS RUINED
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

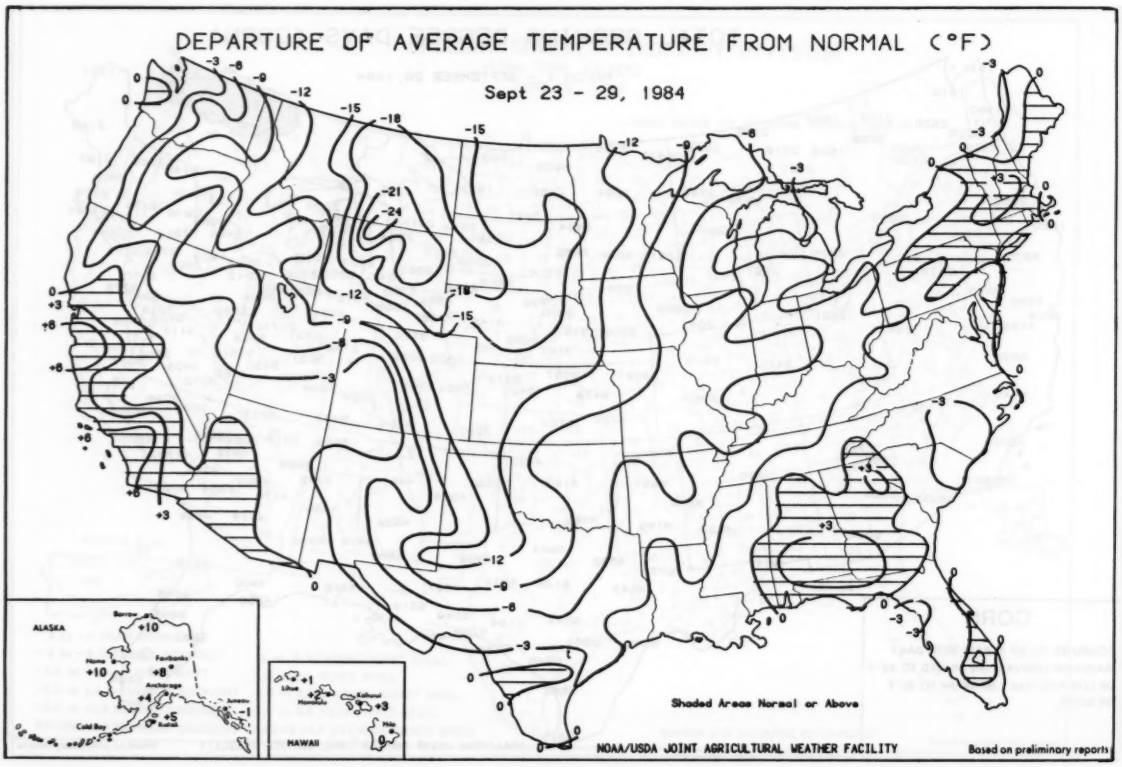

DROUGHT SEVERITY
(LONG TERM, PALMER)
SEPTEMBER 29, 1984
SEVERE
EXTREME
MODERATE
SEVERE
MOIST
MOIST
MOIST
MODERATE
MODERATE
SEVERE
EXTREME
MOIST
MODERATE
MOIST
MOIST
MODERATE
MOIST
MOIST
MOIST
MODERATE
MOIST
MOIST
SEVERE
DROUGHT SEVERITY INDEX (PALMER):DEPICTS PROLONGED (MONTHS,YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION, AS WELL AS EVAPOTRANSPIRATION.
USES...APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSETIVE ECONOMIES;DESIGNATING DISASTER AREAS OF DROUGHT OR WETNESS;AND REFLECTING THE GENERAL,LONG TERM STATUS OF WATER SUPPLIES IN AQUIFERS,RESERVOIRS,AND STREAMS
LIMITATIONS...IS NOT GENERALLY INDICATIVE OF SHORT TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).
Based on preliminary reports


DROUGHT SEVERITY INDEX BY DIVISION
(LONG TERM, PALMER)
SEPT 29, 1984
(INDEX VALUES ARE IN TENTHS; EXAMPLE: 37=3.7)
MARYLAND
PUERTO RICO
.4 to -.4 NEAR NORMAL
-.5 to -.9 INCIPIENT DROUGHT
-1.0 to -1.9 MILD DROUGHT
-2.0 to 2.9 MODERATE DROUGHT
-3.0 to -3.9 SEVERE DROUGHT
BELOW -4.0 EXTREME DROUGHT
.5 to .9 INCIPIENT MOIST SPELL
1.0 to 1.9 MOIST SPELL
2.0 to 2.9 UNUSUAL MOIST SPELL
3.0 to 3.9 VERY MOIST SPELL
ABOVE +4.0 EXTREME MOIST SPELL
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


ADDITIONAL PRECIPITATION NEEDED TO BRING INDEX TO NEAR ZERO
(LONG TERM, PALMER)
SEPT 29, 1984
(VALUES ARE IN TENTHS, EXAMPLE: 37=3.7)
PUERTO RICO
MARYLAND
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


TOTAL GROWING DEGREE DAYS (CORN)
MARCH 1 - SEPTEMBER 29, 1984
CORN
COMPUTED TO 50° F BASE WITH DAILY MAXIMUM TEMPERATURE LIMITED TO 86° F OR LESS AND DAILY MINIMUM TO 50° F OR MORE.
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


AVERAGE TEMPERATURE (°F)
SEPT 23 - 29, 1984
ALASKA
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
Sept 23 - 29, 1984
ALASKA
HAWAII
Shaded Areas Normal or Above
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

Weather Data for the Week Ending SEPTEMBER 29, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sept. 1	PCT. NORMAL SINCE Sept. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	83	60	89	54	72	1	0	-.9	0	.1	2	33.9	78	81	41	0	0	0	0
MOBILE	87	63	91	56	75	0	T	-1.2	T	.7	12	43.8	83	83	42	1	0	1	0
MONTGOMERY	89	63	94	57	76	3	0	-1.0	0	.8	18	40.5	104	86	40	5	0	0	0
AK ANCHORAGE	53	43	58	40	48	4	1.7	1.1	1.1	2.6	109	12.3	109	87	63	0	0	4	1
BARROW	40	32	46	26	36	10	T	-.1	T	.2	26	3.4	92	95	77	0	4	0	0
FAIRBANKS	59	33	63	30	46	8	0	-.2	0	.2	16	7.9	96	84	37	0	5	0	0
JUNEAU	54	38	56	33	46	-1	.8	-.8	.6	3.0	48	37.7	106	100	71	0	0	3	1
KODIAK	56	47	60	40	51	5	2.0	-.1	1.3	7.5	102	53.9	105	95	80	0	0	5	1
NOME	52	42	57	37	47	10	.3	-.1	.2	1.6	70	12.3	104	96	70	0	0	3	0
AZ PHOENIX	91	70	97	64	81	-1	1.1	1.0	.7	3.4	556	11.0	215	81	40	5	0	3	1
PRESCOTT	76	52	80	44	64	2	.6	.3	.3	2.0	141	11.5	78	86	39	0	0	2	1
TUCSON	87	64	92	62	76	-2	1.8	1.5	1.3	1.8	142	11.0	127	76	31	3	0	3	1
YUMA	97	73	106	71	85	1	.1	0	.1	.1	33	4.1	225	70	31	6	0	1	0
AR FORT SMITH	71	56	90	45	64	-7	2.2	1.5	2.0	6.2	199	27.8	92	93	57	1	0	4	1
LITTLE ROCK	71	58	88	48	64	-6	T	-.8	T	4.2	113	31.9	90	86	67	0	0	3	0
CA BAKERSFIELD	88	60	95	55	74	-1	0	-.1	0	T	0	1.3	32	55	22	4	0	0	0
EUREKA	64	46	75	43	55	-1	0	-.3	0	.1	9	16.9	71	88	57	0	0	0	0
FRESNO	90	59	96	53	74	3	0	-.1	0	0	0	2.1	30	59	19	4	0	0	0
LOS ANGELES	79	66	84	63	73	4	.1	.1	.1	.1	64	2.1	24	80	50	0	0	1	0
RED BLUFF	87	55	93	51	71	-1	0	-.1	0	.2	44	5.0	37	41	15	3	0	0	0
SACREMENTO	87	55	92	48	71	1	0	-.1	0	T	0	3.0	27	66	17	4	0	0	0
SAN DIEGO	81	72	84	71	77	7	0	0	0	T	0	1.5	23	82	60	0	0	0	0
SAN FRANCISCO	84	55	90	50	69	6	0	-.1	0	.1	47	4.2	33	76	25	1	0	0	0
CO DENVER	56	35	85	29	46	-14	.4	.1	.4	.5	40	12.3	95	85	43	0	2	3	0
GRAND JUNCTION	72	48	84	42	60	-3	T	-.2	T	.3	51	8.1	137	58	25	0	0	1	0
PUEBLO	63	39	89	30	51	-11	.3	.1	.2	.3	36	14.3	154	80	40	0	2	2	0
CT BRIDGEPORT	70	56	81	43	63	0	.1	-.6	.1	1.7	56	35.2	115	89	55	0	0	2	0
HARTFORD	72	48	85	35	60	1	T	-.8	T	1.2	31	35.0	107	87	43	0	0	1	0
DC WASHINGTON	72	58	88	47	65	-2	.7	0	.4	2.2	70	29.6	98	92	58	0	0	3	0
FL APALACHICOLA	85	66	89	63	76	-1	0	-1.7	0	1.2	15	51.6	115	96	64	0	0	0	0
DAYTONA BEACH	85	74	86	69	80	2	4.1	2.7	4.1	10.9	169	42.1	108	76	58	0	0	2	1
JACKSONVILLE	82	66	85	64	74	-2	5.0	3.5	4.7	12.2	174	43.9	98	98	68	0	0	3	1
KEY WEST	84	78	87	76	81	-1	T	-1.4	T	5.9	93	35.3	119	80	65	0	0	1	0
MIAMI	85	74	87	72	80	-1	2.1	.2	.8	9.6	122	52.1	114	91	60	0	0	6	1
ORLANDO	85	69	87	67	77	-3	1.9	.8	1.9	6.2	115	41.5	100	95	58	0	0	1	1
TALLAHASSEE	89	66	95	59	78	2	0	-1.2	0	2.5	40	51.2	96	94	43	5	0	0	0
TAMPA	87	70	88	69	79	-1	2.5	1.4	1.6	4.2	70	31.2	77	91	51	0	0	2	2
WEST PALM BEACH	84	74	87	73	79	-1	3.3	1.0	1.7	8.2	91	53.1	115	94	65	0	0	6	2
GA ATLANTA	79	61	87	56	70	1	0	-.7	0	T	0	48.1	125	85	47	0	0	0	0
AUGUSTA	85	59	96	57	72	1	.1	-.6	.1	.1	3	41.2	115	86	42	4	0	1	0
MACON	84	62	94	59	73	0	0	-.7	0	.2	7	39.7	109	92	49	2	0	0	0
SAVANNAH	82	64	92	58	73	-1	3.3	2.4	2.6	6.1	123	44.9	105	96	57	1	0	2	2
HI HILO	83	68	85	65	75	0	1.3	-.2	.6	3.8	60	66.6	74	86	61	0	0	5	1
HONOLULU	90	74	91	72	82	2	T	-.2	T	1.3	218	6.4	43	78	45	5	0	0	0
KAHULUI	91	70	93	67	81	3	T	-.1	T	T	0	6.8	49	76	43	7	0	0	0
LIHUE	85	75	86	72	80	1	1.8	1.1	.8	2.7	123	13.2	46	77	59	0	0	6	1
ID BOISE	62	33	74	28	48	-12	0	-.1	0	.7	121	9.4	113	77	23	0	3	0	0
LEWISTON	62	40	73	35	51	-8	T	-.2	T	T	3	8.0	86	77	35	0	0	1	0
POCATELLO	62	32	72	25	47	-8	T	-.2	T	.5	79	10.8	134	71	24	0	4	0	0
IL CHICAGO	64	43	84	32	53	-8	2.2	1.5	1.3	3.8	119	24.9	93	96	57	0	1	2	2
MOLINE	65	45	90	30	55	-6	1.2	.4	1.2	2.3	65	26.4	86	90	50	1	1	4	1
PEORIA	66	46	87	35	56	-6	.7	-.1	.6	2.4	68	27.9	98	87	53	0	0	3	1
QUINCY	66	46	88	32	56	-7	.4	-.6	.4	3.4	83	28.5	93	94	55	0	1	1	0
ROCKFORD	65	44	88	30	54	-5	.7	-.1	.7	1.5	41	21.1	71	91	50	0	2	3	1
SPRINGFIELD	68	48	88	36	58	-6	1.5	.8	1.4	4.8	162	29.6	109	92	54	0	0	3	1
IN EVANSVILLE	69	52	84	43	60	-5	4.9	4.3	2.2	7.0	270	33.6	104	86	56	0	0	4	3
FORT WAYNE	65	50	82	41	58	-3	.5	-.1	.2	3.0	123	22.1	83	92	60	0	0	4	0
INDIANAPOLIS	66	49	83	41	57	-5	2.5	1.9	1.1	4.7	178	29.8	98	97	64	0	0	3	3
SOUTH BEND	64	52	81	42	58	-2	2.4	1.7	1.8	3.6	116	23.0	79	83	55	0	0	3	1
IA DES MOINES	62	40	88	28	51	-11	.1	-.5	.1	2.8	93	31.9	122	94	51	0	3	2	0
SIOUX CITY	59	36	82	25	47	-13	.1	-.5	.1	.7	29	26.2	119	87	45	0	3	1	0
WATERLOO	64	38	91	26	51	-7	1.0	.3	.7	1.4	44	25.4	91	90	40	1	3	3	1
KS CONCORDIA	62	40	91	29	51	-13	.4	-.2	.2	3.7	127	23.8	101	92	47	1	2	2	0
DODGE CITY	64	45	100	37	55	-11	.1	-.2	.1	.4	20	13.5	75	81	41	1	0	3	0
GOODLAND	57	37	90	30	47	-13	.1	-.2	.1	.2	16	17.0	118	87	38	1	1	1	0
TOPEKA	65	45	93	32	55	-10	.5	-.2	.3	4.2	127	30.9	112	95	47	2	1	3	0
WICHITA	67	50	95	37	58	-8	.3	-.5	.3	2.2	65	19.8	84	80	40	2	0	3	0
KY BOWLING GREEN	68	55	84	44	61	-5	1.3	.6	1.2	2.8	92	42.1	111	93	60	0	0	3	1
LEXINGTON	69	52	85	42	60	-4	.9	.2	.3	1.2	39	28.2	78	95	51	0	0	4	0
LOUISVILLE	69	54	85	45	62	-4	2.3	1.6	1.2	3.5	109	35.0	103	90	56	0	0	4	2
LA ALEXANDRIA	79	62	87	53	71	-4	.2	-.6	.2	2.9	114	46.3	113	89	59	0	0	1	0
BATON ROUGE	83	64	88	54	73	-2	.3	-.5	.3	2.3	55	30.2	69	90	55	0	0	1	0
LAKE CHARLES	83	65	90	57	74	-2	.1	-1.0	.1	6.8	135	42.8	105	96	59	1	0	1	0
NEW ORLEANS	83	66	87	60	75	-1	0	-1.1	0	3.8	67	43.9	92	84	51	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending SEPTEMBER 29, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sept. 1	PCT. NORMAL SINCE Sept. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	78	63	92	55	71	-3	T	-.7	T	2.6	82	29.0	86	98	64	2	0	2	0
ME CARIBOU	62	37	71	30	49	0	.2	-.6	.2	1.6	46	28.6	106	84	42	0	2	1	0
PORTLAND	68	45	81	39	56	2	.1	-.7	.1	.8	26	37.7	124	87	49	0	0	1	0
MD BALTIMORE	72	54	89	44	63	-2	1.0	.3	.8	2.3	70	30.2	94	90	51	0	0	3	1
SALISBURY	75	55	88	43	65	1	.5	-.3	.4	.8	21	36.1	103	99	59	0	0	4	0
MA BOSTON	70	50	85	40	60	-1	T	-.7	T	1.2	37	40.4	127	87	51	0	0	2	0
CHATHAM	66	53	76	47	60	1	.1	-.7	.1	1.7	47	39.4	117	--	--	0	0	3	0
MI ALPENA	61	38	74	29	50	-4	.3	-.3	.1	3.9	137	23.6	105	99	64	0	3	4	0
DETROIT	65	51	81	40	58	-2	.9	.4	.8	2.5	114	18.9	79	84	55	0	0	4	1
FLINT	63	50	78	39	57	-1	.5	0	.4	2.7	118	21.1	92	93	57	0	0	3	0
GRAND RAPIDS	63	48	77	36	55	-3	1.3	.6	.9	2.3	75	18.2	70	92	62	0	0	4	1
HOUGHTON LAKE	60	44	72	30	52	-2	1.1	.5	.5	1.8	66	20.3	94	95	66	0	1	5	1
LANSING	62	47	76	34	54	-4	.8	.2	.6	2.6	105	19.7	86	97	65	0	0	3	1
MARQUETTE	56	34	74	27	45	-6	1.3	.5	1.3	4.3	112	25.4	89	94	51	0	4	3	1
MUSKEGON	62	46	76	30	54	-4	.9	.3	.8	1.6	59	20.0	86	92	62	0	1	3	1
SAULT STE. MARIE	59	33	72	28	46	-6	1.5	.7	1.1	4.9	130	22.4	90	100	63	0	4	3	1
MN ALEXANDRIA	50	33	60	26	41	-13	1.3	.8	.9	1.9	85	22.9	110	93	51	0	4	2	1
DULUTH	49	33	57	25	41	-10	2.4	1.7	1.2	3.9	124	19.1	78	88	54	0	4	4	2
INT'L FALLS	47	29	58	24	38	-11	.4	-.3	.4	2.5	80	16.3	80	88	50	0	6	2	0
MINNEAPOLIS	54	37	62	28	46	-11	.6	.1	.5	2.8	115	28.7	128	93	56	0	2	5	1
ROCHESTER	58	36	77	27	47	-9	.1	-.5	.1	2.3	79	20.8	87	90	47	0	3	5	0
MS GREENWOOD	79	61	90	49	70	-2	T	-.7	T	.6	18	32.1	80	94	51	1	0	0	0
JACKSON	84	61	91	52	72	-1	T	-.7	T	.9	27	33.4	83	91	43	3	0	0	0
MERIDIAN	87	61	91	52	74	2	0	-.8	0	.8	23	35.7	86	92	41	3	0	0	0
MO CAPE GIRARDEAU	69	53	85	41	61	--	1.2	.4	.6	4.2	115	25.2	73	97	65	0	0	4	2
COLUMBIA	67	49	87	36	58	-7	.2	-.7	.2	5.6	158	37.2	129	87	58	0	0	3	0
KANSAS CITY	64	45	91	33	54	-10	.3	-.7	.3	3.3	81	27.8	96	95	48	1	0	1	0
SAINT LOUIS	69	52	87	40	60	-6	.2	-.5	.1	8.9	340	34.2	128	94	56	0	0	3	0
SPRINGFIELD	67	52	88	37	59	-6	1.1	.1	.7	4.8	117	28.4	92	89	60	0	0	3	1
MT BILLINGS	41	27	56	22	34	-22	1.1	.8	.6	1.4	116	8.5	69	95	58	0	7	4	1
GLASGOW	45	29	59	27	37	-16	.1	0	.1	.8	91	5.4	52	87	45	0	7	2	0
GREAT FALLS	44	26	61	23	35	-19	.4	.2	.3	.6	63	9.4	73	90	52	0	7	3	0
HAVRE	45	23	59	18	34	-19	T	-.2	T	.7	80	5.0	52	89	40	0	7	0	0
HELENA	45	29	58	24	37	-15	.6	.4	.3	.7	92	7.5	78	86	49	0	7	4	0
KALISPELL	49	28	59	22	39	-11	T	-.2	T	1.9	177	10.9	90	76	36	0	5	2	0
MILES CITY	45	29	58	26	37	-19	.4	.1	.2	.7	69	7.5	63	93	48	0	5	3	0
MISSOULA	51	31	66	22	41	-11	T	-.2	T	.8	82	10.8	104	91	41	0	3	2	0
NE GRAND ISLAND	59	34	90	23	46	-14	T	-.5	T	.2	8	25.4	122	79	35	1	4	0	0
LINCOLN	63	37	90	26	50	-12	.4	-.2	.4	1.4	49	29.1	123	89	46	1	3	1	0
NORFOLK	58	33	86	26	46	-14	T	-.4	T	.7	36	26.7	127	82	39	0	4	2	0
NORTH PLATTE	56	29	79	17	42	-16	T	-.3	T	.4	24	17.3	98	80	38	0	5	0	0
OMAHA	58	40	81	28	49	-12	1.0	.3	.5	3.2	100	28.1	109	84	55	0	1	5	1
SCOTTSBLUFF	54	32	67	21	43	-15	.2	-.1	.1	.4	40	11.2	88	72	36	0	2	2	0
VALENTINE	50	29	59	19	40	-18	.1	-.2	0	.5	39	17.9	115	83	41	0	6	3	0
NV ELY	68	29	76	19	48	-5	T	-.1	T	3.7	550	11.6	164	82	23	0	6	2	0
LAS VEGAS	88	62	92	57	75	-1	0	-.1	0	.5	157	4.2	133	43	17	4	0	0	0
RENO	73	36	82	32	54	-3	0	-.1	0	T	14	1.9	36	64	18	0	1	0	0
WINNEMUCCA	71	28	81	19	49	-7	0	-.1	0	.2	59	8.6	151	50	15	0	6	0	0
NH CONCORD	71	47	84	39	59	4	.1	-.6	.1	1.1	35	32.4	124	91	41	0	0	1	0
NJ ATLANTIC CITY	75	54	89	41	65	2	.9	.3	.8	1.3	47	33.2	105	87	52	0	0	3	1
NM ALBUQUERQUE	71	48	85	45	59	-6	.8	.6	.6	1.1	140	7.1	112	83	40	0	0	3	1
CLOVIS	65	46	88	36	56	-10	.1	-.3	.1	.7	37	18.0	126	88	48	0	0	3	0
ROSWELL	72	53	92	45	62	-7	.8	.4	.7	1.0	60	13.5	167	80	42	2	0	4	1
NY ALBANY	71	51	85	40	61	4	.1	-.6	.1	1.5	49	29.9	112	90	50	0	0	1	0
BINGHAMTON	66	49	81	36	57	1	.2	-.5	.2	1.9	60	31.2	112	89	54	0	0	2	0
BUFFALO	63	49	75	39	56	-2	.7	0	.5	3.7	115	30.1	110	91	56	0	0	4	1
NEW YORK	72	57	86	45	64	0	.4	-.3	.4	2.7	79	41.9	130	88	57	0	0	4	0
ROCHESTER	66	52	79	40	59	1	.4	-.2	.2	3.3	130	28.2	120	86	55	0	0	3	0
SYRACUSE	67	48	80	36	57	-1	.7	-.1	.4	2.6	82	27.9	95	97	63	0	0	4	0
NC ASHEVILLE	74	51	86	46	62	-1	0	-.8	0	T	0	38.9	103	100	62	0	0	0	0
CHARLOTTE	78	57	91	48	67	-1	T	-.8	T	T	1	38.0	111	87	47	2	0	0	0
GREENSBORO	72	53	87	45	63	-3	T	-.8	T	T	1	44.4	133	92	53	0	0	0	0
HATTERAS	77	64	82	60	70	-1	1.4	.2	1.2	3.8	68	37.9	91	95	69	0	0	3	1
NEW BERN	77	60	86	57	69	-2	2.0	.8	1.6	13.9	251	55.8	130	92	68	0	0	2	1
RALEIGH	73	55	89	48	64	-3	.1	-.6	0	.7	22	39.9	121	96	57	0	0	2	0
WILMINGTON	76	59	86	53	68	-4	2.5	1.4	1.3	18.9	343	54.7	125	99	72	0	0	2	2
ND BISMARCK	47	30	60	25	39	-15	.6	.3	.4	.9	70	12.5	93	79	40	0	4	3	0
FARGO	50	32	60	24	41	-13	.4	0	.2	1.2	68	12.6	74	84	43	0	4	2	0
GRAND FORKS	49	28	62	24	39	-14	T	-.4	T	.1	5	16.1	102	82	44	0	6	1	0
WILLISTON	44	29	59	26	37	-16	.3	.1	.3	2.2	167	9.4	78	89	50	0	7	2	0
OH AKRON-CANTON	63	47	80	37	55	-5	.9	.3	.4	2.2	77	26.2	92	95	61	0	0	5	0
CINCINNATI	66	52	85	42	59	-4	2.1	1.5	1.4	3.2	114	27.5	88	89	57	0	0	3	2
CLEVELAND	65	50	80	34	57	-3	.3	-.3	.2	2.3	80	31.5	115	84	56	0	0	4	0
COLUMBUS	66	49	85	33	57	-4	.4	-.1	.3	1.4	53	23.0	77	82	52	0	0	2	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending SEPTEMBER 29, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Sept. 1	PCT. NORMAL SINCE Sept. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	65	49	84	36	57	-6	1.5	1.0	.9	3.2	141	25.2	92	91	65	0	0	3	1
TOLEDO	64	50	81	40	57	-2	.6	.1	.5	2.1	88	23.6	95	97	62	0	0	3	1
YOUNGSTOWN	64	48	79	34	56	-3	.6	-.1	.3	2.4	79	28.4	98	92	61	0	0	3	0
OK OKLAHOMA CITY	68	53	93	42	61	-9	.1	-.7	.1	1.0	31	16.8	66	77	49	2	0	3	0
TULSA	69	54	91	43	62	-8	.7	-.3	.7	2.8	65	30.3	98	91	57	2	0	2	1
OR ASTORIA	67	46	74	38	57	0	T	-.9	T	3.1	101	38.7	92	84	45	0	0	0	0
BURNS	60	24	70	17	42	-13	0	-.1	0	.1	8	7.4	143	--	--	0	6	0	0
MEDFORD	78	39	87	36	59	-3	T	-.2	T	.5	62	8.0	68	92	23	0	0	1	0
PENDLETON	61	40	66	36	50	-10	.1	-.1	.1	.5	86	8.9	110	86	38	0	0	1	0
PORTLAND	70	48	75	42	59	-1	T	-.4	T	1.5	96	21.2	93	82	32	0	0	1	0
SALEM	73	40	81	35	57	-2	0	-.5	0	1.2	75	24.5	101	92	32	0	0	0	0
PA ALLENTOWN	70	52	85	41	61	0	.4	-.4	.2	1.1	28	43.3	129	92	57	0	0	5	0
ERIE	66	52	79	42	59	1	.7	-.2	.4	5.2	138	28.2	97	85	58	0	0	4	0
HARRISBURG	69	54	83	41	61	-1	.4	-.3	.3	.8	22	35.3	118	--	--	0	0	4	0
PHILADELPHIA	72	54	85	44	63	-1	.7	0	.6	2.0	60	37.3	117	87	49	0	0	3	1
PITTSBURGH	67	50	82	36	58	-2	.4	-.3	.2	.7	25	25.6	89	88	49	0	0	4	0
SCRANTON	68	54	83	43	61	2	.3	-.4	.2	1.4	42	31.4	117	88	53	0	0	3	0
RI PROVIDENCE	72	53	83	43	62	3	.1	-.7	.1	1.8	52	39.3	120	85	46	0	0	2	0
SC CHARLESTON	78	62	88	55	70	-3	1.6	.7	1.2	5.2	109	42.5	98	95	65	0	0	2	1
COLUMBIA	84	57	97	53	70	-1	.1	-.7	.1	.2	5	40.7	100	93	43	4	0	2	0
FLORENCE	78	58	90	52	68	-4	.6	-.2	.4	1.3	33	37.6	103	98	59	1	0	2	0
GREENVILLE	78	57	89	53	68	-1	0	-1.0	0	.2	5	30.1	126	77	42	0	0	0	0
SD ABERDEEN	50	32	59	24	41	-14	.3	0	.2	.7	51	17.8	113	92	47	0	3	2	0
HURON	51	32	59	27	41	-15	.3	0	.2	.9	72	25.7	160	89	47	0	4	3	0
RAPID CITY	49	28	58	21	38	-19	.2	0	.1	.7	75	13.8	95	79	41	0	7	3	0
SIOUX FALLS	53	32	61	23	43	-14	.2	-.4	.1	1.6	58	24.4	117	92	45	0	4	3	0
TN CHATTANOOGA	76	57	88	54	67	-1	0	-.9	0	.4	9	36.0	89	85	52	0	0	0	0
KNOXVILLE	78	57	90	53	68	0	T	-.7	T	.4	14	39.5	109	88	48	1	0	0	0
MEMPHIS	73	59	88	50	66	-4	.4	-.3	.2	2.0	56	39.3	98	94	64	0	0	3	0
NASHVILLE	73	56	88	44	65	-4	T	-.8	T	1.0	27	42.0	111	85	54	0	0	1	0
TX ABILENE	70	55	91	46	63	-10	2.9	2.2	2.1	3.6	120	12.0	64	80	55	2	0	3	2
AMARILLO	64	44	93	32	54	-12	.4	0	.2	1.0	58	13.9	84	87	50	2	1	4	0
AUSTIN	79	61	93	53	70	-6	T	-.9	T	.8	23	10.8	45	89	54	2	0	1	0
BEAUMONT	82	68	88	62	75	-1	0	-1.3	0	4.1	69	36.5	91	93	63	0	0	0	0
BROWNSVILLE	88	72	93	59	80	0	3.9	2.7	3.8	19.4	382	36.7	190	95	60	3	0	2	1
CORPUS CHRISTI	84	68	91	59	76	-3	T	-1.3	T	3.0	51	13.1	54	94	61	2	0	1	0
DEL RIO	82	64	95	53	73	-4	1.0	.4	1.0	1.9	70	8.0	59	77	44	3	0	2	1
EL PASO	79	54	93	48	67	-4	.9	.6	.7	1.0	72	11.7	184	82	42	2	0	2	1
FORT WORTH	75	60	95	52	67	-8	.1	-.7	.1	.1	3	18.0	76	89	57	3	0	2	0
GALVESTON	79	71	84	61	75	-3	0	-1.2	0	5.1	90	21.4	70	87	68	0	0	0	0
HOUSTON	82	67	90	59	74	-1	2.1	1.0	2.1	3.7	78	27.0	79	83	55	2	0	1	1
LUBBOCK	69	48	93	39	59	-9	.1	-.4	.1	.2	8	9.8	66	85	48	2	0	1	0
MIDLAND	71	51	93	43	61	-10	1.9	1.4	1.1	1.9	94	11.3	100	81	55	1	0	3	1
SAN ANGELO	72	56	90	47	64	-9	2.0	1.3	1.1	3.0	100	10.7	74	93	67	1	0	4	2
SAN ANTONIO	83	64	95	53	73	-3	.3	-.5	.3	1.1	30	13.6	60	80	47	2	0	1	0
VICTORIA	85	67	92	54	76	-2	T	-1.3	T	1.9	31	19.3	66	99	59	3	0	2	0
WACO	78	61	96	53	70	-6	.2	-.5	.2	1.3	43	15.7	66	89	58	3	0	2	0
WICHITA FALLS	71	55	96	43	63	-9	.7	-.1	.6	.8	24	10.7	50	91	56	2	0	3	1
UT BLANDING	68	46	75	40	57	-2	.4	.2	.4	.9	105	6.3	79	83	39	0	0	1	0
CEDAR CITY	76	40	78	33	58	-2	0	-.2	0	T	0	10.2	130	63	21	0	0	0	0
SALT LAKE CITY	66	42	74	39	54	-7	.6	.4	.3	1.7	200	15.6	134	81	34	0	0	2	0
VT BURLINGTON	69	47	81	34	58	3	.5	-.2	.5	2.8	91	28.1	110	82	43	0	0	2	0
VA NORFOLK	76	61	88	56	69	0	.7	-.2	.4	1.9	46	39.3	110	91	59	0	0	3	0
RICHMOND	75	55	90	48	65	-1	.3	-.5	.1	1.5	44	38.7	115	93	55	2	0	3	0
ROANOKE	70	53	88	43	62	-3	.2	-.6	.1	1.4	45	36.4	121	93	60	0	0	2	0
WA COLVILLE	59	32	65	23	46	-9	.1	-.1	.1	.7	87	17.9	153	77	39	0	4	3	0
QUILLAYUTE	67	39	72	33	53	-2	T	-1.6	T	3.6	70	69.7	110	95	43	0	0	2	0
SEATTLE-TACOMA	67	47	76	42	57	-1	0	-.6	0	1.1	54	21.8	94	79	35	0	0	0	0
SPOKANE	59	35	68	28	47	-8	T	-.1	T	.6	81	11.2	101	78	33	0	2	1	0
YAKIMA	65	39	70	32	52	-5	T	-.1	T	.4	135	5.7	109	73	30	0	2	1	0
WV BECKLEY	64	48	81	39	56	-3	.3	-.4	.2	.9	28	30.8	92	97	64	0	0	3	0
CHARLESTON	70	53	86	41	62	-2	.6	-.1	.3	2.4	82	28.6	85	90	56	0	0	4	0
HUNTINGTON	68	54	86	42	61	-3	1.2	.6	.8	2.2	73	27.2	84	89	58	0	0	5	1
PARKERSBURG	71	54	87	44	63	0	.3	-.4	.2	.9	34	22.3	66	92	54	0	0	2	0
WI GREEN BAY	62	42	78	29	52	-4	1.8	1.1	1.5	5.7	188	27.4	120	93	52	0	1	3	1
LA CROSSE	62	39	86	29	51	-7	.2	-.5	.1	2.8	86	24.6	96	92	44	0	3	3	0
MADISON	63	42	86	26	53	-4	2.3	1.7	1.3	2.8	95	23.5	93	87	49	0	2	3	2
MILWAUKEE	63	46	86	36	54	-4	1.4	.8	1.1	2.2	78	25.8	105	91	55	0	0	3	1
WAUSAU	59	39	76	28	49	-5	2.4	1.6	2.3	4.7	126	30.5	116	93	49	0	2	3	1
WY CASPER	45	22	59	18	34	-21	.2	0	.2	.5	68	11.2	119	94	44	0	7	2	0
CHEYENNE	48	24	77	17	36	-18	.2	-.1	.1	.6	63	15.6	133	98	55	0	7	3	0
LANDER	44	26	56	21	35	-19	.5	.3	.3	.8	99	11.8	110	94	60	0	7	3	0
SHERIDAN	41	20	52	6	31	-23	1.5	1.2	1.0	1.9	171	12.8	104	86	51	0	7	3	1
PR SAN JUAN	91	74	94	72	83	1	.2	-1.2	.2	3.0	51	28.9	76	85	54	5	0	1	0

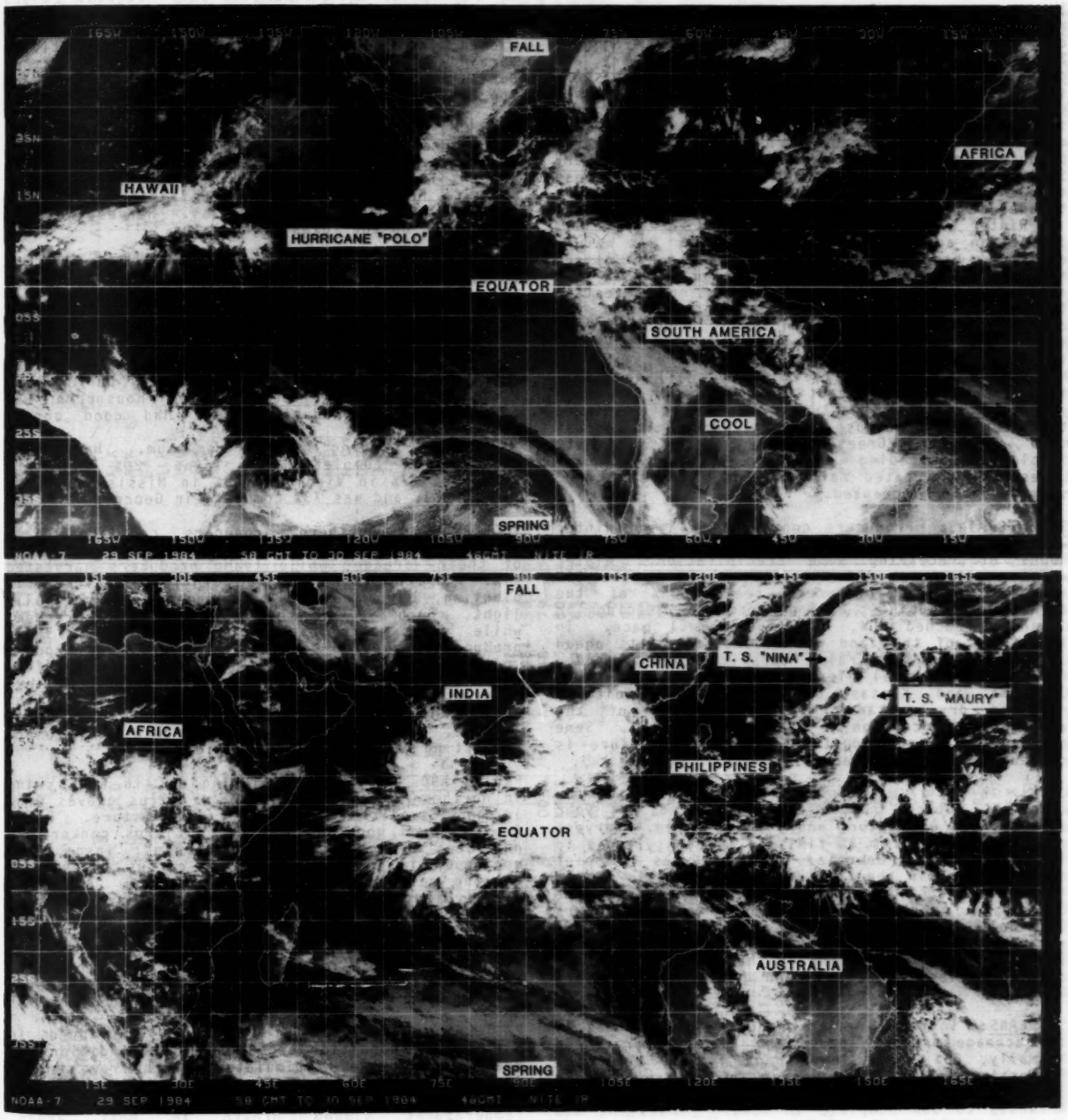
BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

COOLING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

L:EH DATE OF DATA COLLECTION PERIOD IS 9-29-1984
ACCUMULATIONS ARE FROM JANUARY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV FROM L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV FROM L YR	CUM DEV FROM NORM PRCT	CUM DEV FROM L YR PRCT
AL BIRMINGHAM	BHM	50	6	49	1621	-200	-108	-11	-6
AL MOBILE	MOB	72	0	53	2004	-419	83	-17	4
AL MONTGOMERY	MGM	80	23	67	1958	-205	45	-9	2
AK ANCHORAGE	ANC	0	0	0	6	6	6	**	**
AK BARROW	BRW	0	0	0	0	0	0	**	**
AK FAIRBANKS	FAI	0	0	0	45	-11	-69	**	**
AK JUNEAU	JNU	0	0	0	0	0	0	**	**
AK KODIAK	ADQ	0	0	0	6	6	2	**	**
AK NOME	OME	0	0	0	2	2	1	**	**
AZ FLAGSTAFF	FLG	0	0	0	89	-37	32	-29	56
AZ PHOENIX	PHX	112	-2	-20	3068	627	116	18	3
AZ TUCSON	TUS	76	-13	-8	2769	144	125	5	5
AZ WINSLOW	INW	6	-3	-9	1306	127	62	11	5
AZ YUMA	YUM	142	9	-3	4170	355	57	9	1
AR FORT SMITH	FSM	30	-12	-6	1798	-103	-1	-5	0
AR LITTLE ROCK	LRF	34	-12	-7	1806	-168	-137	-9	-7
CA BAKERSFIELD	BFL	64	-3	13	2168	-40	143	-2	7
CA EUREKA	EKA	0	0	0	4	4	-5	**	**
CA FRESNO	FAT	66	19	16	2499	812	546	48	28
CA LOS ANGELES	LAX	56	23	20	954	356	216	60	29
CA RED BLUFF	RBL	44	-10	11	2083	248	431	14	26
CA SAN DIEGO	SAN	82	42	22	1519	794	349	110	30
CA SAN FRANCISCO	SFO	35	24	29	297	210	42	**	**
CA STOCKTON	SCK	48	6	8	1736	351	296	25	21
CO DENVER	DEN	1	-6	-7	729	57	-1	8	0
CO GRAND JUNCTION	GJT	12	-4	-8	1278	85	-78	7	-6
CO PUEBLO	PUB	3	-11	-10	1119	85	51	8	5
CT BRIDGEPORT	BDR	24	14	24	857	118	15	16	2
CT HARTFORD	BDL	17	14	17	699	33	-212	5	-23
DE WILMINGTON	ILG	28	12	28	1048	95	-204	9	-16
DC WASHINGTON	DCA	37	11	30	1389	-21	-293	-1	-17
FL APALACHICOLA	AQQ	78	-1	44	2002	-355	-86	-15	-4
FL DAYTONA BEACH	DAB	105	16	36	2169	-322	55	-13	3
FL FORT MEYER	FMY	110	3	23	3040	-35	418	-1	16
FL JACKSONVILLE	JAX	64	-11	40	2062	-222	-13	-10	-1
FL KEY WEST	EYW	115	-4	9	3543	-222	248	-6	8
FL MIAMI	MIA	103	-7	12	3063	-243	-107	-7	-3
FL ORLANDO	MCO	86	-16	6	2470	-438	-202	-15	-8
FL TALLAHASSEE	TLH	90	17	73	2160	-143	18	-6	1
FL TAMPA	TPA	98	-2	24	2764	-91	145	-3	6
FL WEST PALM BEACH	PBI	99	-9	17	2801	-261	-251	-9	-8
GA ATLANTA	ATL	43	5	39	1532	-89	-108	-5	-7
GA AUGUSTA	AGS	52	10	49	1836	-36	-78	-2	-4
GA MACON	MCN	59	4	55	2040	-85	-164	-4	-7
GA SAVANNAH	SAV	60	-1	47	2108	-42	-94	-2	-4
HI HILO-HAWAII	ITO	75	4	1	2513	170	182	7	8
HI HONOLULU-OAHU	HNL	120	15	0	3680	368	425	11	13
HI KAHULUI-MAUI	OGG	112	21	14	3481	596	605	21	21
HI LIHUE-KAUAI	LIH	107	12	15	3481	658	552	23	19
ID BOISE	BOI	0	-7	-7	795	53	157	7	25
ID LEWISTON	LWS	0	-8	-6	800	58	98	8	14
ID POCATELLO	PIH	0	-1	0	427	-18	37	-4	9
IL CHICAGO	ORD	9	2	6	719	-9	-368	-1	-34
IL MOLINE	MLI	22	15	12	1014	129	-303	15	-23
IL PEORIA	PIA	21	13	8	1021	90	-400	10	-28
IL ROCKFORD	RFD	16	12	10	742	40	-374	6	-34
IL SPRINGFIELD	SPI	27	8	9	1194	55	-265	5	-18
IN EVANSVILLE	EVV	15	-9	3	1314	-52	-324	-4	-20
IN FORT WAYNE	FWA	11	-2	7	859	85	-412	11	-32
IN INDIANAPOLIS	IND	6	-8	-4	965	-9	-405	-1	-30
IN SOUTH BEND	SBN	14	7	10	862	163	-379	23	-31
IA DES MOINES	DSM	10	3	-19	1133	136	-417	14	-27
IA DUBUQUE	DBQ	16	13	8	658	81	-295	14	-31
IA SIOUX CITY	SUX	3	-4	-30	860	-71	-343	-8	-29
KS CONCORDIA	CNK	12	-7	-24	1433	113	-143	9	-9
KS DODGE CITY	DDC	22	2	-42	1829	378	-52	26	-3
KS GOODLAND	GLD	4	-6	-19	849	-83	-462	-9	-35
KS TOPEKA	TOP	22	0	-21	1349	-8	-322	-1	-19
KS WICHITA	ICT	30	2	-10	1804	146	119	9	7
KY LEXINGTON	LEX	19	-4	18	1105	-53	-332	-5	-23
KY LOUISVILLE	SDF	18	-7	7	1280	-50	-294	-4	-19
LA BATON ROUGE	BTR	62	-8	25	2197	-203	138	-8	7
LA LAKE CHARLES	LCH	67	-7	15	2369	-68	99	-3	4
LA NEW ORLEANS	MSY	71	-4	38	2066	-410	-62	-17	-3
LA SHREVEPORT	SHV	50	-12	18	2185	-124	115	-5	6
ME CARIBOU	CAR	0	0	0	210	63	-37	43	-15
ME PORTLAND	PWM	4	4	4	391	137	-45	54	-10
MD BALTIMORE	BWI	30	14	30	1007	-121	-334	-11	-25
MA BOSTON	BOS	18	11	15	906	220	-216	32	-19
MI ALPENA	APN	0	0	-1	263	83	-259	46	-50
MI DETROIT	DTW	13	6	13	700	93	-132	15	-16
MI FLINT	FNT	12	9	12	604	154	-208	34	-26
MI GRAND RAPIDS	GRR	10	7	10	671	107	-100	19	-13
MI HOUGHTON LAKE	HTL	3	0	3	355	60	-190	20	-35
MI LANSING	LAN	9	6	9	621	96	-136	18	-18
MI MARQUETTE	MQT	0	0	-2	170	18	-242	12	-58
MI MUSKEGON	MKG	8	5	8	475	28	-256	6	-35
MI SAULT ST MARIE	SSM	0	0	0	123	-17	-263	-12	-68
MN DULUTH	DLH	0	0	0	248	98	-180	65	-42
MN INT'L FALLS	INL	0	0	0	221	6	-195	3	-47
MN MINNEAPOLIS	MSP	0	-3	-15	712	59	-282	9	-28
MN ROCHESTER	RST	0	-3	-14	416	-62	-333	-13	-44
MN SAINT CLOUD	STC	0	0	-11	488	91	-210	23	-30
MS JACKSON	JAN	56	1	38	2037	-146	29	-7	1
MS MERIDIAN	MEI	63	10	53	1693	-375	-20	-18	-1
MO COLUMBIA	COU	25	5	11	1266	22	-197	2	-13
MO KANSAS CITY	MCI	18	0	-19	1321	6	-257	0	-16
MO SAINT LOUIS	STL	29	2	6	1647	214	-166	15	-9
MO SPRINGFIELD	SGF	30	5	5	1449	95	-122	7	-8
MT BILLINGS	BIL	0	-3	-6	787	234	-25	42	-3
MT GLASGOW	GGW	0	0	-4	753	292	44	63	6
MT GREAT FALLS	GTF	0	-3	-5	489	106	112	28	30
MT HAVRE	HVR	0	0	0	523	105	93	25	22
MT HELENA	HLN	0	0	0	378	83	48	28	15
MT KALISPELL	FCA	0	0	0	174	4	57	2	49
MT MILES CITY	MLS	0	-7	-4	957	180	-77	23	-7
MT MISSOULA	MSO	0	0	0	283	63	89	29	46
NE GRAND ISLAND	GRI	4	-3	-28	1173	153	-225	15	-16
NE LINCOLN	LNK	9	2	-22	1214	102	-338	9	-22
NE NORFOLK	OFK	1	-6	-24	1019	92	-276	10	-21
NE NORTH PLATTE	LBF	0	-3	-18	831	59	-142	8	-15
NE OMAHA	ONA	6	-3	-23	1093	-60	-293	-5	-21
NE VALENTINE	VTN	0	-3	-18	836	81	-158	11	-16
NV ELY	ELY	0	0	0	181	-11	10	-6	6
NV LAS VEGAS	LAS	72	-5	6	2998	114	304	4	11
NV RENO	RNO	0	-2	0	551	196	183	55	50
NV WINNEMUCCA	WMC	0	0	0	525	18	165	4	46
NH CONCORD	CON	12	12	12	456	107	-71	31	-13
NJ ATLANTIC CITY	ACY	32	28	32	1124	335	-79	42	-7
NM ALBUQUERQUE	ABQ	6	-5	-8	1407	161	-138	13	-9
NM ROSWELL	ROW	23	-12	-29	1614	-205	-226	-11	-12
NY ALBANY	ALB	21	21	21	491	-3	-136	-1	-22
NY BINGHAMTON	BGM	14	13	14	447	121	-218	37	-33
NY BUFFALO	BUF	7	4	7	529	50	-222	10	-30
NY NEW YORK	LGA	31	14	27	1031	-7	-206	-1	-17
NY ROCHESTER	ROC	18	12	18	537	6	-178	1	-25
NY SYRACUSE	SYR	10	5	10	378	-129	-210	-25	-36
NC ASHEVILLE	AVL	10	-4	10	620	-215	-376	-26	-38
NC CAPE HATTERAS	HAT	38	-6	20	1566	81	28	5	2
NC CHARLOTTE	CLT	39	8	36	1374	-153	-213	-10	-13
NC GREENSBORO	GSO	28	9	28	1125	-172	-176	-13	-14
NC RALEIGH DURHAM	RDU	32	8	32	1257	-120	-212	-9	-14
NC WILMINGTON	ILM	34	-12	29	1629	-204	-199	-11	-11
ND BISMARCK	BIS	0	0	-7	495	21	-165	4	-25
ND FARGO	FAR	0	0	-8	595	117	-115	24	-16
ND WILLISTON	ISN	0	0	-3	638	196	-205	44	-24
OH AKRON-CANTON	CAK	9	2	9	568	-50	-311	-8	-35
OH CLEVELAND	CLE	16	8	16	569	-39	-352	-6	-38
OH COLUMBUS	CMH	16	2	16	826	-22	-234	-3	-22
OH CINCINNATI	CVG	11	-6	11	990	-31	-281	-3	-22
OH DAYTON	DAY	8	-7	8	713	-217	-322	-23	-31
OH TOLEDO	TOL	12	5	12	641	30	-200	5	-24
OH YOUNGSTOWN	YNG	16	13	16	559	77	-278	16	-33
OK OKLAHOMA CITY	OKC	34	-6	-14	1942	90	118	5	6
OK TULSA	TUL	32	-10	-25	1985	15	-262	1	-12
OR ASTORIA	AST	0	0	0	10	-11	3	**	**
OR BURNS	4BW	0	-2	0	204	-148	74	-42	57
OR MEDFORD	MFR	0	-10	-10	684	35	99	5	17
OR PENDLETON	PDT	0	-9	-5	614	-111	109	-15	22
OR PORTLAND	PDX	0	-3	-1	382	60	77	19	25
OR SALEM	SLE	0	-2	0	178	-58	-14	-25	-7
PA ALLENTOWN	ABE	24	17	24	857	108	-185	14	-18
PA ERIE	ERI	15	8	15	598	208	-143	53	-19
PA HARRISBURG	CXY	31	18	31	1040	44	64	4	7
PA PHILADELPHIA	PHL	27	13	27	975	-90	-292	-8	-23
PA PITTSBURGH	PIT	18	10	18	545	-93	-217	-15	-28
PA SCRANTON	AVP	24	21	24	691	132	-22	24	-3
RI PROVIDENCE	PVD	17	14	17	690	119	-360	21	-34
SC CHARLESTON	CNS	43	-10	37	1960	-2	-92	0	-4
SC COLUMBIA	CAE	43	-3	40	1760	-207	-159	-11	-8
SC GREENVILLE	GSP	33	5	33	1379	-102	-63	-7	-4
SD ABERDEEN	ABR	0	-1	-10	585	-7	-289	-1	-33
SD HURON	HON	0	-3	-12	758	23	-289	3	-28
SD RAPID CITY	RAP	0	-7	-22	658	-1	-210	0	-24
SD SIOUX FALLS	FSD	0	-3	-18	747	1	-302	0	-29
TN CHATTANOOGA	CHA	25	-7	23	1312	-237	-213	-15	-17
TN KNOXVILLE	TYS	31	2	31	1052	-375	-365	-26	-26
TN MEMPHIS	MEM	36	-10	4	1913	-79	-168	-4	-8
TN NASHVILLE	BNA	37	1	27	1379	-239	-402	-15	-23
TX ABILENE	ABI	35	-26	-29	2454	119	189	5	8
TX AMARILLO	AMA	23	-1	-20	1228	-165	-282	-12	-19
TX AUSTIN	AUS	51	-28	-6	2901	210	582	8	25
TX BROWNSVILLE	BRO	107	5	14	3280	32	81	1	3
TX CORPUS CHRISTI	CRP	84	-16	1	2871	-260	192	-8	7
TX DEL RIO	DRT	65	-21	-13	3041	10	87	0	3
TX EL PASO	ELP	28	-12	-43	2075	32	15	2	1
TX FORT WORTH	DFW	46	-24	-8	2577	-105	377	-4	17
TX GALVESTON	GLS	71	-19	-12	2475	-137	5	-5	0
TX HOUSTON	IAH	68	-7	16	2415	-92	175	-4	8
TX LUBBOCK	LBB	22	-7	-24	1654	19	-48	1	-3
TX MIDLAND ODESSA	MAF	29	-18	-36	2071	22	-244	1	-11
TX SAN ANGELO	SJT	38	-22	-20	2370	-84	190	-3	9
TX SAN ANTONIO	SAT	66	-15	6	2841	93	416	3	17
TX VICTORIA	VCT	84	-4	21	2876	25	363	1	14
TX WACO	ACT	50	-25	-6	2745	31	388	1	16
TX WICHITA FALLS	SPS	39	-19	-30	2419	28	209	1	9
UT SALT LAKE CITY	SLC	0	-10	-15	1184	206	102	21	9
VT BURLINGTON	BTV	10	10	10	507	128	-76	34	-13
VA LYNCHBURG	LYH	30	12	30	1035	-26	-200	-2	-16
VA NORFOLK	ORF	41	9	36	1471	43	-81	3	-5
VA RICHMOND	RIC	38	14	38	1386	74	-122	6	-8
VA ROANOKE	ROA	26	9	26	1031	-41	-157	-4	-13
WA QUILLAYUTE	UIL	0	0	0	6	-34	-6	**	**
WA SEATTLE-TACOMA	SEA	0	0	0	130	-50	33	-28	34
WA SPOKANE	GEG	0	0	0	405	-8	8	-2	2
WA WALLA WALLA	ALW	0	-11	-15	995	129	199	15	25
WA YAKIMA	YKM	0	-2	0	415	-65	-23	-14	-5
WV BECKLEY	BKW	14	11	14	490	26	-84	6	-15
WV CHARLESTON	CRW	27	9	27	1085	98	-141	10	-12
WV HUNTINGTON	HTS	24	0	23	1126	28	-220	3	-16
WV PARKERSBURG	PKB	27	9	26	1073	76	-51	8	-5
WI GREEN BAY	GRB	8	8	6	416	31	-195	8	-32
WI LACROSSE	LSE	8	5	-5	675	0	-297	0	-31
WI MADISON	MSN	13	10	12	558	93	-196	20	-26
WI MILWAUKEE	MKE	10	7	9	710	243	-169	52	-19
WY CASPER	CPR	0	-3	0	455	-2	-160	0	-26
WY CHEYENNE	CYS	0	-3	0	211	-97	-116	-31	-35
WY LANDER	LND	0	-3	0	637	201	75	46	13
WY SHERIDAN	SHR	0	-2	-2	536	118	-238	28	-31

TROPICAL WEATHER
Sept. 29–30



National Agricultural Summary
September 24 - 30

HIGHLIGHTS: An unusually early freeze pushed southward halting plant growth across most of the Rocky Mountains, into northern portions of the southern Plains and across most of the western Corn Belt. However, damage was minimal because of the advanced maturity of most crops. Light to moderate rainfall benefited newly-seeded small grains from central Texas through much of the eastern Corn Belt, but elsewhere conditions remained dry and plantings continued behind schedule. Southeastern soybeans were stressed by continued dry weather except along coastal areas. Farmers had 3-5 days suitable for fieldwork in the northern Rockies and much of the eastern Corn Belt. Elsewhere, producers enjoyed 5-7 days of favorable weather. Soil moisture continued short to very short across much of the Great Plains and Southeast, and short to adequate elsewhere in the Nation.

Winter wheat planting advanced to 41% completion and 19% emerged. Corn was 87% mature and 13% harvested. Soybean harvesting gained momentum; plants dropped leaves on 66% of the acreage and 12% was harvested. Cotton harvesting trailed the average; bolls opened on 63% of the acreage, but only 12% was picked. Sorghum was 64% mature and 37% harvested. Rice combining advanced to 62% completion. Tobacco producers actively harvested and marketed their crop. Fall vegetable and apple harvesting continued active in northern producing regions. Pastures and ranges continued to deteriorate because of dry conditions across much of the Great Plains and Southeast. Supplemental feeding continued in many areas. Livestock were rated fair to good. Movement from summer grazing increased.

SMALL GRAINS: Producers continued delaying winter wheat seeding across much of the Great Plains in hopes of receiving some precipitation. Winter wheat seeding was 41% complete, trailing the 51% average. Kansas producers seeded 35% of the acreage, 20 points behind normal. Seeding in Oklahoma reached 20%, half the normal pace. In Texas, 43% of the land was seeded, 3 points ahead of average. Light rains benefited newly seeded fields in central Texas and extreme eastern Oklahoma and Kansas but elsewhere conditions remained dry. Stands emerged on 19% of the acreage, 5 percentage points behind normal. Some producers continued dusting in wheat; moisture is needed to establish stands.

CORN: In the 17 major producing States, 87% of the corn was mature and 13% was harvested. A year earlier, 92% was mature and 14% harvested. Harvest progress ranged from 3% finished in Pennsylvania to 91% complete in Georgia. Progress was 1 point behind normal in the Corn Belt and 6 points behind in the Southeast. Freezing temperatures across the central and northern Plains and into the western Corn Belt caused only limited damage because of the advanced maturity of the crop. However, the freeze should promote fast drying in these areas. Showers delayed harvesting across much of the eastern Corn Belt.

SOYBEANS: In the 18 major producing States, 66% of the acreage dropped leaves and 12% was harvested. Normally, 66% sheds leaves and 14% is combined. Harvesting trailed the average in 9 out of the 18 States. Progress ranged from 1% harvested in Arkansas to 30% complete in Iowa. Harvesting had not started in the Carolinas or Tennessee. Dry conditions continued stressing double-cropped soybeans in the Southeast, except along coastal areas.

COTTON: Cotton continued in fair to mostly good condition. In the 14 major producing States, bolls were opening on 63% of the acreage, behind last year's 68% and 66% average. Harvesting was active in all States except New Mexico. Progress ranged from 2% finished in Oklahoma to 16% complete in Texas. In the major States, 12% of the acreage was picked, trailing the 14% average. Growers actively sprayed defoliants when conditions permitted. Harvesting was active on the Texas Low Plains, and the first bale was ginned on the High Plains.

SORGHUM: In the 7 major producing States, 94% of the acreage turned color, 64% matured, and 37% harvested. Normally, 93% turns color, 63% matures and 34% is harvested. Harvesting was active in all States. Progress ranged from 6% finished in South Dakota to 67% complete in Texas. Harvesting will begin soon on the Texas High Plains.

OTHER CROPS: Rice harvesting reached 62% completion in the 5 major producing States, 2 points ahead of the normal pace. Arkansas growers combined 45% of their acreage; Louisiana farmers harvested 92%. California harvesting was 40% complete, well ahead of the 14% average.

Tobacco harvesting, curing, and marketing continued in full swing. The Kentucky burley crop was 92% cut and little or no houseburn was evident. Most producing areas had good curing weather.

Peanut digging gained momentum. Harvesting reached 13% completion in Texas, 20% in North Carolina, 27% in Virginia, 69% in Mississippi, 70% in Alabama, and was 73% complete in Georgia.

VEGETABLES: Northern producers continued fall vegetable harvesting. Maine potato growers dug 70% of their acreage, while Idaho producers harvested 21%. Heavy rains slowed Florida's vegetable planting, but wind and rain damage was generally light. Cucumber and squash harvesting increased, while sweet corn picking got underway. Texas producers harvested carrots, cucumbers, and peppers on the High Plains. Fields drained well after previous heavy rains in the Rio Grande Valley. California producers harvested moderate to light volumes of broccoli, carrots, cauliflower, celery, lettuce, and market tomatoes. Processing tomato harvesting was winding down rapidly.

FRUITS AND NUTS: Apple picking was in full swing in northern orchards. Florida's citrus groves were in good condition with abundant moisture. Early fruit showed good color break. Citrus canker has not been detected in mature groves; inspections continued in all areas. Texas citrus trees were growing well because of good moisture. Arizona's grapefruit picking began while lemon harvesting was in full swing in the Yuma area. California producers harvested apples, avocados, dates, table and wine grapes, persimmons, pomegranates, pistachios, and walnuts. Raisin, grape, nectarine, peach, plum, and Valencia orange harvesting neared completion.

PASTURES AND LIVESTOCK: Pastures continued in mostly fair condition because of dry conditions in most regions. Rain stimulated growth from central Texas into the eastern Corn Belt and along the Southeastern coastal areas. However, cold temperatures slowed growth in most areas. Supplemental feeding was widespread and livestock marketing continued heavy in some areas. Movement of herds from summer grazing areas was active as snow covered most of the Rocky Mountains.

CROP PROGRESS

FOR WEEK ENDING SEPT 30

CORN
% HARVESTED

	1984	1983	AVG.
COLO	8	4	3
GA	91	87	88
ILL	12	20	15
IND	7	12	8
IOWA	12	30	14
KANS	35	30	25
KY	16	25	26
MICH	5	5	3
MINN	4	12	4
MO	32	49	34
NEBR	8	20	8
N C	60	68	71
OHIO	6	15	10
PA	3	4	4
S DAK	4	14	8
VA	41	45	46
WIS	7	7	3
17 STATES	13	22	14

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

CORN
% MATURE

	1984	1983	AVG.
COLO	65	78	55
GA	100	100	100
ILL	92	98	96
IND	85	90	80
IOWA	96	99	88
KANS	95	85	80
KY	77	85	90
MICH	85	90	72
MINN	87	90	73
MO	89	93	81
NEBR	90	93	70
N C	98	99	98
OHIO	75	90	80
PA	38	46	46
S DAK	81	96	92
VA	87	95	96
WIS	85	95	87
17 STATES	87	92	83

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

SOYBEANS
% HARVESTED

	1984	1983	AVG.
ALA	6	4	4
ARK	1	3	3
GA	5	0	2
ILL	19	33	31
IND	15	35	15
IOWA	30	24	21
KANS	10	10	5
KY	4	5	6
LA	8	4	10
MICH	5	10	4
MINN	17	16	12
MISS	4	4	6
MO	8	18	12
NEBR	10	30	20
N C	0	0	0
OHIO	10	25	15
S C	0	0	0
TENN	0	1	2
18 STATES	12	17	14

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

SOYBEANS
% DROPPING LEAVES

	1984	1983	AVG.
ALA	42	31	41
ARK	19	31	29
GA	56	31	39
ILL	77	92	87
IND	85	95	80
IOWA	93	93	85
KANS	75	75	60
KY	44	52	41
LA	42	39	42
MICH	100	95	85
MINN	98	97	95
MISS	64	51	65
MO	54	65	56
NEBR	85	95	75
N C	13	12	14
OHIO	80	90	85
S C	13	17	20
TENN	23	38	35
18 STATES	66	70	66

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

SORGHUM
% COLORING

	1984	1983	AVG.
COLO	96	98	86
KANS	90	85	90
MO	95	96	89
NEBR	100	100	100
OKLA	100	100	98
S DAK	92	100	97
TEX	95	95	95
7 STATES	94	93	93

THESE 7 STATES PRODUCED 85% OF THE 1983 SORGHUM CROP.

SORGHUM
% MATURE

	1984	1983	AVG.
COLO	48	79	51
KANS	55	60	45
MO	82	85	72
NEBR	65	90	60
OKLA	55	75	70
S DAK	60	90	75
TEX	73	75	78
7 STATES	64	73	63

THESE 7 STATES PRODUCED 85% OF THE 1983 SORGHUM CROP.

SORGHUM
% HARVESTED

	1984	1983	AVG.
COLO	21	14	5
KANS	20	15	10
MO	38	47	29
NEBR	8	20	10
OKLA	15	15	15
S DAK	6	18	14
TEX	67	63	70
7 STATES	37	36	34

THESE 7 STATES PRODUCED 85% OF THE 1983 SORGHUM CROP.

RICE
% HARVESTED

	1984	1983	AVG.
ARK	45	57	50
CALIF	40	7	14
LA	92	84	91
MISS	60	35	56
TEX	100	100	100
5 STATES	62	59	60

THESE 5 STATES PRODUCED 98% OF THE 1983 RICE CROP.

WINTER WHEAT
% EMERGED

	1984	1983	AVG.
CALIF	0	0	0
COLO	55	56	60
IDAHO	24	25	20
ILL	1	2	3
IND	5	5	5
KANS	10	15	15
MO	4	7	9
MONT	10	30	30
NEBR	65	60	65
OHIO	0	2	1
OKLA	5	10	15
OREG	6	7	14
S DAK	62	71	70
TEX	16	5	15
WASH	47	46	43
15 STATES	19	21	24

THESE 15 STATES PRODUCED 84% OF THE 1983 WINTER WHEAT CROP.

WINTER WHEAT
% PLANTED

	1984	1983	AVG.
CALIF	3	0	0
COLO	83	86	89
IDAHO	52	56	50
ILL	8	11	16
IND	15	20	15
KANS	35	40	55
MO	13	19	18
MONT	45	65	60
NEBR	95	92	92
OHIO	15	20	20
OKLA	20	45	40
OREG	19	24	31
S DAK	92	93	92
TEX	43	28	40
WASH	60	59	57
15 STATES	41	46	51

THESE 15 STATES PRODUCED 84% OF THE 1983 WINTER WHEAT CROP.

COTTON
% BOLLS OPENING

	1984	1983	AVG.
ALA	78	83	72
ARIZ	95	90	94
ARK	85	92	80
CALIF	100	75	78
GA	69	75	80
LA	80	70	79
MISS	90	91	96
MO	100	100	88
N MEX	85	60	62
N C	97	96	87
OKLA	40	50	50
S C	77	98	87
TENN	93	95	77
TEX	40	56	51
14 STATES	63	68	66

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON CROP.

COTTON
% HARVESTED

	1984	1983	AVG.
ALA	15	13	15
ARIZ	3	2	6
ARK	10	20	18
CALIF	4	0	2
GA	11	6	24
LA	14	3	16
MISS	12	8	15
MO	15	43	32
N MEX	0	0	0
N C	5	16	18
OKLA	2	0	1
S C	7	22	21
TENN	4	21	17
TEX	16	15	17
14 STATES	12	11	14

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON CROP.

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall 0.00 in. entire State. Temperatures averaged 2 to 5° below normal.

Soil moisture very short over the entire State. Fieldwork: 6.7 days. Corn harvested 73%, 82% 1983, 77% average. Soybeans turning yellow 67%, 61% 1983, 69% average. Soybeans dropping leaves 42%, 31% 1983, 41% average. Soybeans mature 22%, 22% 1983, 28% average. Soybeans harvested 6%, 4% 1983, 4% average. Cotton bolls open 78%, 83% 1983, 72% average. Cotton harvested 15%, 13% 1983, 15% average. Peanuts dug 70%, 56% 1983, 57% average. Peanuts combined 57%, 42% 1983, 46% average. Sorghum harvested 62%, 48% 1983. Activities: Harvesting corn, sorghum, peanuts, cotton, soybeans, and vegetables; preparing for fall planting, and routine care of livestock and poultry. Conditions: Cotton, peanuts, sorghum, and livestock fair to good; soybeans fair; pastures poor to mostly fair.

ALASKA: "Last report of the season." Tanana Valley warmer than normal, light rain late in week. Matanuska Valley and Kenai Peninsula had above normal temperatures with rain early and late in week. As 1984 crop season comes to an end, farmers throughout the Railbelt were busy winding up most harvest activities. Tanana Valley had nearly ideal conditions with 7 days to combine what was left in the grain fields. Matanuska Valley and areas south had clouds and rain with 3 to 5 days, depending on the ara, to complete their harvest. Nearly all of 1984 barley crop was in the bin with harvest 99% complete 90% of oats for grain harvested. Last year, barley harvest 85% complete. Harvest of second crop hay in the wind up stage compared to 60% last year. Potato harvest virtually complete. Condition of livestock mostly good. Soil moisture supplies were adequate.

ARIZONA: Tropical storm Norbert brought heavy rains to eastern two-thirds of State 25th through 27th, with greatest amount 26th. Totals between 0.75 and 2.00 in., locally 2.00 to 3.00 in. White Mountains, eastern section Mogollon Rim. Maximum temperatures 26th mostly 10 to 15° lower than rest of week. Average temperatures for week 3 to 10° lower than previous week, varied from 2° above 4° below seasonal normals.

Ranges, pastures in above average condition. Adequate rainfall maintained stock water supplies, soil moisture levels. Light to moderate insect damage to rangelands. Cotton open bolls 95%, 90% year ago, 94% average. Picking limited with 3% statewide, 2% last year, 6% average. Defoliation active all areas, some spraying for pink bollworm. Alfalfa growers preparing seed beds, planting new stands. Sorghum grain turning color central area, harvest continued Yuma, Cochise. Corn good condition. Fall vegetable harvest progressed with cauliflower, cucumbers, carrots, peppers, green onions being picked. Cantaloupe, honeydew, watermelon harvests advancing. Lemons full swing Yuma, grapefruit has begun. Apple harvest progessing.

ARKANSAS: Temperatures warm early in week, but cold front in latter half brought rain. Temperatures ranged from 1 to 7° below normal. High 91°, low 43°. Most rainfall 3.90 in., least 0 in.

Soil moisture short in northeast and southeast, adequate elsewhere. Days favorable for fieldwork: 4.8. Cotton condition good; open bolls 85%, 92% 1983, 80% average; harvested 10%, 20% 1983, 18% average. Rice condition good; ripe 81%, 83% 1983, 87% average; harvested 46%, 57% 1983, 50% average. Soybean condition good; setting pods 100%, 97% 1983, 98% average; yellowing 42%, 51% 1983, 44% average; harvested 1%, 3% 1983 and average. Corn condition good; harvested 78%, 87% 1983, 80% average. Sorghum condition good; harvested 61%, 76% 1983, 79% average. Wheat seeding 7%, 6% 1983, 8% average. Livestock condition good to fair. Pastures below average to average in northwest and average elsewhere.

CALIFORNIA: Only the central and southern coastal sections managed above normal temperatures. Northern districts averaged below normal for temperatures while central and southern interior areas of the State remained near normal Precipitation in the State was nonexistent except for a few hundredths recorded in extreme south. A general area of high pressure over the State during the week kept the rainfall to a minimum. Temperatures during the week ranged from 107° at Thermal to a chilly 17° recorded in Alturas.

Rice harvest full swing; 40% harvested, 7% last year, 14% average. Field burning, Sacramento Valley. Corn grain, silage harvest continues. Field preparation fall planting small grains. Cotton progressing 4% harvested, 0% last year, 2% average. Defoliation continues. Bolls open 100%, 75% last year, 78% average. Dry bean harvest full swing, kidney beans lower yield due extreme heat. Alfalfa cutting continues, sixth cutting some fields. Safflower harvested. Sugarbeets still being dug. Harvest continues in apples, avocados, dates, Calmeria and Emperor table grapes, north coast wine grapes (high sugar levels), persimmons, pomegranates, desert lemons (excellent quality), summer grapefruit, almonds (exclent yields), pistachios, and just beginning in walnuts. Raisin grape, nectarine, peach, plum, and Valencia orange harvest near completion. Broccoli moderate supply. Cantaloupe harvest decreasing San Joaquin Valley. Carrot harvest moderate. Cauliflower light supply. Celery harvest fairly light. Lettuce moderate supply central coast, first harvest about October 10, San Joaquin Valley. Harvesting white and red potatoes Perris-Hemet and Norgolds in Tulelake-Butte Valley. Sweetpotato harvest increasing. Market tomato harvest moderate. Processing tomato harvest winding down rapidly. Ranges continue dry most State. Supplemental feeding active many areas. Movement livestock winter pastures continues. Calving underway San Joaquin Valley.

COLORADO: Cold and cloudy over most of State. Six inches of snow fell in the northwest on 25th, and precipitation in most areas of the State up to 0.03 in. Temperatures were 5 to 10° below normal in the east and mostly normal in the rest of the State.

Dry conditions has winter wheat progressing slowly with 83% planted; 1983 86%, average 89%. Plant emergence is at 55%, 1983 56%, average 60%. Corn 65% mature, 1983 78%, average 55%. Grain harvest 8% complete, 1983 4%, average3%.

Sorghum 48% matured; 1983, 79%, average 51%. Harvest 21% complete; 1983 14%, average 5%. Spring wheat harvest at 94%, 1983 85%, average 83%. Third cutting alfalfa 69% complete, 1983 80%, average 72%; 4th cutting at 13%, 1983, 18%; average 14%. Dry bean threshing at 75%, 1983 77%, average 58%. Summer potato harvest 80% complete, 1983 84%, average 81%. Fall potato harvest at 55%, 1983 45%, average 37%. Onion harvest at 72%, 1983 65%, average 55%. Days suitable for fieldwork: 5.9.

FLORIDA: Tropical storm Isidore highlighted the week's weather, producing heavy rain over Peninsula. The storm's center moved across southeast coast north of West Palm Beach, 27th, tracking northwest to just north of Tampa. The storm recurved toward Jacksonville late on the 28th, then finally moved out to sea. Rainfall totaled 2.00 to 3.00 in., south, central areas 5.00 in. northeast sections. Wind damage was only minor and confined to spotty, downed power lines, some snapped tree limbs. Temperatures for the week averaged near normal, cooler at weekend. Panhandle remained dry, with scattered showers, thunderstorms across southern Peninsula.

Late week rains from Isidore improved soil moisture all areas except Panhandle which remained dry. Soybean harvest began, yields reduced by dry weather. Peanut harvest active, ahead of schedule with excellent harvesting conditions. Cotton opening rapidly under dry conditions. Sugarcane good to excellent condition. Land preparation and planting small grains underway. Hay harvest continues. Pastures poor to fair, Panhandle where conditions have been dry. However, conditions generally good across most of Peninsula where late week rains beneficial. Cattle condition declined to poor to fair, Panhandle but remained good to excellent elsewhere. Tropical storm Isidore brought moderate rains 2.00 to 5.00 in. most vegetable areas. Wind, rain damage generally light. Seeding, transplanting fall crops became quite active central, southern areas. Land preparation continues active. Early crops making good progress. Cucumber, squash harvest underway central area. Sweet corn harvest underway Zellwood, with harvest expected October 8, Everglades. Tomatoes making good progress all areas. First harvest expected mid-October Manatee-Ruskin. Fruit set good. Green pepper, eggplant fruit sizing well. Light harvest fall watermelons expected by mid-October. Abundance of rain in citrus areas from Isidore; very little standing water. Good color break on early fruit. Fresh fruit permitted to move within State this week. Canker not detected in mature groves; inspections continued all areas.

GEORGIA: Most of rain fell in southeast where totals of 3.00 to 6.00 in. common. Many stations west reported no rain during week. Temperatures averaged 2° cooler than normal. Several stations central and south reported high temperatures in mid 90's particularly on afternoon of 26th. Cornelia 39° morning October 1st for the coldest temperature of the week.

Soil moisture 4% adequate, 15% short, 79% very short. Average days suitable for fieldwork: 6.1. Main activities harvesting corn, peanuts and hay and planting small grains and pasture. Corn harvested 91%, 87% last year, 85% average. Cotton bolls open 69%, 75% last year, 80% average; harvested 11%, 6% last year, 24% average; condition 6% excellent, 49% good, 39% fair, 6% poor. Peanuts dug 73%, 63% last year, 72% average; threshed 58%, 45% last year, 57% average; condition 13% excellent, 54% good, 22% fair, 11% poor. Soybeans dropping leaves 56%, 31% last year, 39% average; harvested 5%, 0% last year, 2% average; condition 15% good, 47% fair, 28% poor, 10% very poor. Grain sorghum condition 42% good, 42% fair, 12% poor, 4% very poor. Wheat planted 4%, 7% last year, 8% average. Rye planted 9%, 19% last year, 16% average. Other small grains planted 8%, 14% last year, 13% average. Apples harvested 89%, 84% last year, 91% average; condition 7% excellent, 63% good, 22% fair, 7% poor. Pecan condition 41% good, 46% fair, 8% poor. Hay condition 17% good, 46% fair, 30% poor, 6% very poor. Pasture condition 12% good, 43% fair, 33% poor, 11% very poor. Cattle condition 56% good, 37% fair, 6% poor. Hog condition 63% good, 33% fair.

HAWAII: The State's major vegetable areas continued dry during the week, while light to moderate showers fell elsewhere. Daytime temperatures averaged above the norm for the month, but cloud cover prevented any record highs.

Clear skies at night produced temperatures below the monthly norm providing crops relief from the heat. A strict two hour daily irrigation schedule in Waimea on Hawaii Island causing farmers to cut back on new plantings. Crops also showing signs of heat stress. This area is one of the major producers of vegetables in the State. Kula, on Maui, is the other major growing area and conditions there were also dry. Irrigation, however, is heavy and crops making satisfactory growth. Chinese cabbage production expected to be moderate. New plantings have been reduced due to water shortages in Waimea. Head cabbage and head lettuce production will also be moderate. Spraying heavy for insect and disease control, especially in head lettuce. Papaya production continues on a seasonal decline. Banana production anticipated to increase in the coming weeks.

IDAHO: A Pacific storm system brought cool, dry weather to the State. Temperatures averaged from 7 to 16° below normal statewide. Precipitation amounts were scattered and moderate for most areas of the State.

Harvesting of crops made good progress as 5.9 days were suitable for fieldwork. Potatoes were 21% harvested compared to 23% for both last year and the average. The third cutting of alflafa hay advnaced to 51% harvested compared to 50% a year ago and 63% average. Dry beans jumed to 61% harvested versus 62% in 1983 and 60% average. Silage corn was 49% harvested compared to 72% last year and 60% average. Corn for grain harvest was just underway with 2% of the crop picked. Winter wheat was 52% seeded versus 56% in 1983 and 50% average. The new crop was 24% emerged compared to 25% a year ago and 20% average. Livestock were coming off the summer range with 23% of the cattle and 24% of the sheep moved.

ILLINOIS: Temperatures 6 to 12° below normal. Precipitation 0.0 to 2.28 in.

Soil moisture 52% adequate, 22% short, 26% surplus. Corn mature 92%, last year 98%, average 96%; harvested 12%, last year 20%, average 15%. Soybeans turning yellow 94%, last year 99%, average 98%; shedding leaves 77%, last year 92%, average 87%; harvested 19%, last year 33%, average 31%. Sorghum harvested 12%, last year 26%, average 18%. Winter wheat seeded 8%, last year 11%, average 16%; 1% emerged, last year 2%, average 3%. Pasture condition 5% excellent, 49% good, 40% fair, 6% poor. Days suitable for fieldwork: 3.0.

INDIANA: Temperatures averaged 6 to 9° cooler than usual. Frost widespread in north. Precipitation variable, amounts averaged 0.50 to 1.00 in. north and 1.00 to 2.00 in. south.

Fieldwork averaged 2.3 days. Topsoil moisture adequate. Subsoil moisture short to mostly adequate. Corn 7% harvested, 1983 12%, 8% average. Corn moisture 29%, 1983 23%. Corn condition 2% poor, 21% fair, 7% good, 2% excellent. Corn 85% mature, 1983 90%, average 80%. Soybeans 15% combined, 1983 35%, average 15%. Soybean moisture 14%. Soybeans 55% mature, 1983 80%, average 55%. Soybean condition 3% poor, 29% fair, 67% good, and 1% excellent. Soybeans 85% dropping leaves, 1983 95%, average 80%. Wheat land 47% plowed, 1983 50%, average 60%. Wheat 15% seeded, 1983 20% average 15%. Wheat 5% emerged, 1983 5%, average 5%. Rye 30% seeded, 1983 35%, average 30%. Tobacco 93% harvested, 1983 70%, average 88%. Silos 75% filled, 1983 90%, average 70%. Pastures fair to good.

IOWA: Statewide freeze on the 26th with the seasons first snowfall the next morning in extreme northwest. The cold frontal passage of the 24th was accompanied by heavy rain over portions of central and southeast. Northwest, north central, southwest and south central districts remain very dry.

Days suitable for fieldwork: 5.6. Corn acreage matured 96% complete, 99% last year, 88% normal. Corn harvesting 12% complete, 30% last year, 14% normal. Corn lodging 4% no damage 33% light, 55% moderate and 8% heavy damage. Ear droppage 21% light, 69% moderate, 10% heavy. Soybean acreage shedding leaves 93% complete; last year 93%, normal 85%. Soybean acreage reaching maturity 82% complete, last year 77%, normal 68%. Soybean harvesting 30% complete; last year 24%, normal 21%. Soybean lodging damage 19% light, 63% moderate, 18% heavy. Soybean shattering 17% light, 64% moderate, 19% heavy. Sorghum acreage harvested 12% complete, last year 21%, normal 9%. Winter wheat acreage seeding 53% complete, 52% last year, 48% normal. Fall tillage 4% complete, 9% last year, 3% normal. Fall fertilizer application 3% complete, 5% last year, 1% normal. Topsoil moisture conditions 71% short, 29% adequate. Subsoil moisture conditions 80% short, 20% adequate. Livestock in good condition.

KANSAS: Temperatures 45° northwest to 55° southeast. These were 12 to 15° below normal, with upper 20's to low 30's common over much of State. Precipitation average 0.02 in. west central, 0.10 to 0.20 in. northwest and southwest, and 0.20 to 0.40 in. central and east.

Sorghum grain 90% turning color, 85% last year, 90% average; 55% mature, 60% last year, 45% average; 20% harvested, 15% last year, 10% average. Soybeans 75% dropping leaves, 75% last year, 60% average; 10% harvested, 10% last year, 5% average. Corn mature 95%, 85% last year, 80% average; 35% harvested, 30% last year, 25% average. Winter wheat planted 35%, 40% last year, 55% average; 10% emerged, 15% last year and average. Soil moisture short. Pasture and rangeland fair to good. Days suitable for fieldwork: 6.0.

KENTUCKY: Week started warmer than normal with average daily temperatures a few degrees above normal. However, last 5 days were 5 to 15° below normal. Ground was saturated from previous week's rainfall. Cloudy and damp weather persisted for a majority of last week. Precipitation amounts were above normal most areas, averaging 0.50 to 1.00 in. above normal.

Days favorable for fieldwork averaged 3.4. Soil moisture 37% short, 51% adequate, 12% surplus. Approximately 8% tobacco left in field, 12% year ago. Little or no houseburn to burley. Corn harvest 16% complete, 25% last year, 26% average. Rain, wet fields, and high moisture content slowing harvest. Yield and quality mostly good. Corn 77% mature or harvested compared to 85% last year, 90% average. Soybeans 4% harvested, 5% last year, 6% average. Approximately 44% dropping leaves or beyond, 52% last year, 41% average. Leaves entirely green on 25% of acreage and additional frost free weather needed for these beans. Fall pastures will benefit from recent rains.

LOUISIANA: Rainfall amounts ranged from none to 3.07 in. Average temperatures were generally from normal to 3° below normal. High 92°, low 50°.

Soil moisture short northeast, short to adequate northwest, and adequate elsewhere in the State. Days suitable for fieldwork: 5.0. Activities included harvesting hay, rice, corn, sorghum, sweetpotatoes, cotton, and soybeans; planting sugarcane and winter wheat; and fertilizing winter pastures. Rice ripe 96% 1984, 96% 1983, 99% average; harvest 92% 1984, 84% 1983, 91% average. Corn harvest 99% 1984, 89% 1983, 94% average. Cotton open bolls 80% 1984, 70% 1983, 79% average; harvest 14% 1984, 3% 1983, 16% average; condition good. Soybeans turning color 71% 1984, 69% 1983, 69% average; leaves shedding 42% 1984, 39% 1983, 42% average; harvest 8% 1984, 4% 1983, 10% average; condition good. Sorghum harvest 98% 1984, 87% 1983, 83% average. Winter wheat planting 4% 1984, 5% 1983, 7% average; emerged 1% 1984, 3% 1983, 2% average. Sweetpotato harvest 71% 1984, 66% 1983, 66% average. Sugarcane planting 61% 1984, 64% 1983, 69% average; condition fair. Vegetable condition fair. Hay final cutting 88% 1984, 80% 1983, 80% average. Pasture and livestock condition fair to good.

MARYLAND AND DELAWARE: Maryland: Scattered showers averaging 0.68 in. limited fieldwork to 5.4 days. Topsoil moisture supplies improved to mostly adequate and subsoil moisture supplies improved from short to adequate. Corn acreage 75% mature; 90% 1983, normal 85%. Corn silage 90% cut, 100% 1983, normal 95%. Corn for grain 35% picked; 45% 1983, normal 40%. Soybeans turned 75%, 70% 1983 and normal. Fifty percent of soybeans have shed leaves, 40% 1983 and normal. Tobacco 95% harvested; 1983 75%, normal 90%. Barley 40% seeded; 25% 1983, normal 35%. Wheat 10% seeded; equal to 1983, normal 15%. Apples picked 65%, last year and average 55%.

Delaware: Rains late in the week averaged 0.75 in. High temperatures, mid to upper 80's, lows near 40 with some record lows reported on the 28th. Days suitable for fieldwork 5.5 days. Subsoil moisture remains short, topsoil moisture now adequate. Field corn dented 100%, equal to both 1983 and normal. Mature corn 90%; 1983 95%, normal 90%. Corn for grain harvested 30%, last year 25%, normal 40%. Soybeans poor condition. Soybeans turned 85%, last year 65%, normal 70%. Apples 40% picked, 70% 1983, 40% normal.

MICHIGAN: Temperatures averaged 3° below normal and moderate amounts of precipitation fell across the State. Several areas had well over 1.00 in. of precipitation. The southwest corner of the lower Peninsula was the wettest with 2.20 in.

Cool-wet conditions during the week hampered most fieldwork activities. Statewide 4.0 days suitable for fieldwork. Corn 85% mature, 90% last year, 72% average. Corn for grain harvest 5% complete, 5% last year, 3% average. Soybeans 100% shedding leaves, 95% last year, 85% average. Soybeans 5% harvested, 10% last year, 4% average. Dry beans 65% harvested, 45% last year, 55% average. Corn silage 60% harvested, 70% last year, 55% average. Third cutting hay 75% baled, 80% last year, 76% average. Wheat 30% planted, 30% last year, 30% average. Fall harvest of fruits and vegetables continues.

MINNESOTA: A frontal system moved across the central portions of the State the first of the week bringing some relief to our dry conditions. Temperatures averaged 8 to 14° below normal. High: 85°, low: 15°. Precipitation averaged 0.23 to 0.44 in. below normal for the northwest and southern 1/3 of the State, and near normal to 0.80 in. above normal elsewhere. Greatest weekly total: 3.18 in.

September 25th marked the first arrival of a killing frost at nearly all points across the State. The hard freeze killed weeds and dropped the moisture content in early planted row crops. Sugarbeet lifting was in progress throughout the State harvest activity and fall fieldwork was limited by scattered showers receiving early in the week. Rye and winter wheat benefitted from the added moisture. Pasture conditions continued poor, however areas in the south received enought moisture to start some growth. Moisture conditions continued to be inadequate in the northwest quarter of the State. Field corn: Mature 87%, 1983 90%, normal 73%; harvested 4%, 1983 12%, normal 4%; moisture content 25%, 1983 27%, normal 30%. Soybeans: Shedding leaves 98%, 1983 97%, normal 95%; mature 76%, 1983 76%, normal 67%; harvested 17%, 1983 16%, normal 12%; moisture content 14%, 1983 14%, normal 14%. Sunflower: Bracts turning yellow 99%, 1983 99%, normal 98%; bracts turning brown 83%, 1983 84%, normal 79%; harvested 3%, 1983 9%, normal 11%. Sugarbeets: Harvested 14%, 1983 16%, normal 9%. Potatoes: Harvested 74%, 1983 55%, normal 60%.

MISSISSIPPI: Temperatures near to 7° below normal, extremes 43 and 93°. Below average rainfall, greatest weekly total 0.57 in.

Soil moisture short to very short. Fieldwork 6.3 days suitable, 6.3 days 1983, 5.5. average. Crop harvest in full swing. Cotton condition good; 90% open bolls, 91% 1983, 96% average; 12% harvested, 8% 1983, 15% average. Soybeans fair; 64% dropping leaves, 51% 1983, 65% average; 4% harvested, 4% 1983, 6% average. Rice condition good: 60% harvested, 35% 1983, 56% average. Sorghum condition good; 94% ripe, 95% 1983; 63% harvested, 65% 1983, 58% average. Wheat 12% planted, 9% 1983, 12% average. Hay 90% harvested, 92% 1983 and average. Peanuts 69% harvested, 53% 198, 62% average. Sweetpotatoes 59% harvested, 38% 1983, 43% average. Corn 58% harvested, 66% 1983, 69% average. Pasture condition fair. Pecan condition fair.

MISSOURI: Temperatures averaged 8° below normal, ranging from 5° below normal in the Bootheel to 10° below normal in the west central plains. Rainfall averaged around 0.50 in. in the northern half and over 1.00 in. in the southern half. Over 2.00 in. fell in parts of the Bootheel.

Days suitable for fieldwork: 3.1. Soybeans turning color 79%, 87% last year, 75% normal. Soybeans dropping leaves 54%, 65% last year, 56% normal. Soybeans mature 27%, 43% last year, 36% normal. Soybeans harvested 8%, 18% last year, 12% normal. Corn mature 89%, 93% last year, 81% normal. Corn harvested 32%, 49% last year, 34% normal. Sorghum mature 82%, 85% last year, 72% normal. Sorghum harvested 38%, 47% last year, 29% normal. Cotton with bolls opening 100%, 100% last year, 88% normal. Cotton harvested 15%, 43% last year, 32% normal. Fall tillage planted 13%, 9% last year and 9% normal. Wheat planted 13%, 19% last year, 18% normal. Wheat emerged 4%, 7% last year, 9% normal. Condition of pasture 1% excellent, 18% good, 61% fair, 20% poor. Topsoil moisture supply 27% short, 61% adequate, 12% surplus.

MONTANA: Major fall snow storm left 6 to 18 in. of snow along front range of the Rockies and over southern portions of southeast and south central, as well as extreme eastern areas of northeast first of the week. Many areas received 0.50 in. of moisture, while others received nearly 1.25 in. Another snow storm later in week left 3 to 6 in. over widely scattered areas east of Divide. North central and northeast were dry during latter period. Temperatures continued downward trend early in week, but rebounded to near normal by end of week. For the week, temperatures much below normal, mostly 10 to 23° below. West and southwest mostly near normal, while eastern areas showed greatest departures from normal.

Topsoil moisture adequate except in east. Subsoil moisture short except in west and south central. Days suitable for fieldwork: 2.6. Crops harvested compared with last year and average: Corn silage 80, 80, 80; dry beans 65, 65, 70; potatoes 40, 30, 25; sugarbeets 0, 10, 15. Winter wheat planted 45%, last year 65%, average 60%; winter wheat emerged 10%, last year 30%, average 30%. Winter wheat germination mostly fair. About 55% of cattle and sheep moved to winter pastures. Heavy use of crop residues for pasture, especially in east.

NEBRASKA: Temperatures averaged 16° below normal State with freezing temperatures at night midweek and weekend. Precipitation light near 0.10 in. west, ranged 0.20 in. to 0.75 in. central and east.

Winter wheat planted 95%, 92% last year and average. Winter wheat emerged 65%, 60% last year, 65% average. Corn mature 90%, 93% last year, 70% average. Corn harvested 8% 20% last year, 8% average. Corn condition rated 1% poor, 14% fair, 67% good, 18% excellent. Soybeans dropping leaves 85%, 95% last year, 75% average. Soybeans harvested 10%, 30% last year, 20% average. Soybean condition rated 15% poor, 51% fair, 34% good. Sorghum turning color 100% this year, last year, average. Sorghum mature 65%, 90% last year, 60% average. Sorghum harvested 8%, 20% last year, 10% average. Sorghum condition rated 8% poor, 29% fair, 60% good, 3% excellent. Topsoil moisture 94% short, 6% adequate. Subsoil moisture 80% short, 20% adequate. Days suitable for fieldwork averaged 6.6.

NEVADA: Cooling trend occurred all areas beginning of period. Temperature drops of 10 to 15° common, especially north and central areas. Many sections of State experienced hard freezes. Temperatures returned to seasonal norms midweek but end of period had another cold air invasion accompanied by strong winds. Average temperatures averaged 3 to 6° below normal. Extremes: 8 and 100° only sparce precipitation recorded.

Potato harvest full swing. Alfalfa seed combining in wind up stage. Excellent yields reported. Cattle coming off summer ranges.

NEW ENGLAND: Temperatures averaged 1 to 5° above normal, ranging from a mean of 46° extreme north to 61° in many central and southern areas. Precipitation occurred mostly as showers. Parts of Vermont, NH and Maine received 0.25 in.

Soil moisture conditions and grazing availability short to adequate. All 7 days suitable for fieldwork. Silage corn 50% chopped, 55% last year. Maine potatoes 70% dug, on schedule with last year. Maine oats 90% harvested. Third cut hay 80% harvested, 70% last year. Cranberry harvest in full swing with excellent size reported.

NEW JERSEY: Temperatures averaged slightly below normal. Extremes were 33° on the 27th and 89° on the 25th and 26th. Weekly rainfall averaged 0.28 in. north, 0.63 in. central and 0.97 in. south. The heaviest 24-hour total was 0.69 in. on the 30th to 1st. Estimated soil moisture, in percent of field capacity, averaged 73% north, 72% central and 65% south. Four inch soil temperatures averaged 59° north, 63° central and 64° south.

Fieldwork: 5.5 days suitable. The main farm activities included harvesting potatoes, vegetables, cranberries and apples, planting cover crops and seeding hay and pastures. Fall crop prospects good. Soybean fields coloring and field corn harvesting.

NEW MEXICO: Average temperatures below normal statewide. Minimum temperature: 22° northern mountains. Maximum temperature: 94° southeastern plains. Widespread showers throughout State: snow in extreme northeast. Precipitation totals none to 1.62 in.

Soil moisture supplies very short to adequate. Alfalfa good to excellent; fourth cutting neared completion, fifth continued. Cotton fair to good. Corn good to excellent; grain harvest underway. Barley fair to good; planting near completion. Irrigated wheat good, dryland fair to good. Irrigated grain sorghum good to excellent, dryland fair to excellent; harvest underway. Pecans good to excellent. Apples fair to good; harvest continued. Peanuts good; digging continued with excellent quality. Chile fair to good; red chile harvest continued. Lettuce fair; harvest to begin soon. Cattle and sheep good to excellent. Range good to excellent. Cotton open bolls: 85%, last year 60%, average 62%; harvested 0%, last year 0%, average 0%.

NEW YORK: Average weekly temperatures were close to normal but there was quite a wide variation. Beginning quite warm, there was a large drop in temperatures by week's end. Many northern areas dropped below freezing with scattered frost. Rain was mostly below normal, less than 0.25 in. except from sections in the north and west where they were close to normal.

The week was a good one for fieldwork. Silage corn harvesting advanced to 15% complete, behind the 46% last year and the average of 37%. The corn crop about 2 weeks behind normal development. Third cutting of alfalfa now 69% complete, slightly ahead of the 68% average but behind the 81% reported last year. Third cutting yields and quality have been excellent. The apple crop harvest continues across the State. Early indications suggest that many blocks picking-out lighter than expected. The harvest of most vegetables has been completed or is winding down. Potato, cabbage, cauliflower and onion harvests active.

NORTH CAROLINA: Temperatures averaged 2 to 4° below normal statewide. Precipitation was heaviest along the southern coast and very little elsewhere and ranged from none to 2.53 in.

Soil moisture: 40% very short, 32% short, 28% adequate. Days suitable for fieldwork: 6.3. Condition: Cotton 4% poor, 28% fair, 68% good. Peanuts 42% fair, 58% good. Soybeans 16% poor, 36% fair, 48% good. Sweetpotatoes 48% fair, 52% good. Apples 17% fair, 71% good, 12% excellent. Sorghum 3% poor, 34% fair, 63% good. Phenological stages: Cotton open bolls: 98%, 1983 99%, 98% average. Corn mature: 98%, 1983 89%, 98% average. Soybeans dropping leaves: 13%, 1983 12%, 14% average. Harvest: Burley tobacco 95%, 1983 81%, 90% average. Corn for silage 90%, 1983 93%, 97% average. Corn for grain 60%, 1983 68%, 71% average. Sweetpotatoes 23%, 1983 14%, 34% average. Apples 65%, 1983 54%, 63% average. Sorghum grain 38%, 1983 29%, 41% average. Cotton 5%, 1983 16%, 18% average. Peanuts dug 20%, 1983 4%, 16% average. Peanuts threshed 12%, 1983 2%, 8% average. Major farm activities: Burley tobacco harvest, corn grain and silage harvest, marketing tobacco, baling hay, harvesting apples and cotton, digging peanuts and sweetpotatoes, working ground for fall crops and seeding small grain and marketing tobacco.

NORTH DAKOTA: Last week was wet and cold over entire State. Temperatures from 12.9° below normal east central to 17.1° west central. Extremes ranged from 69° southeast to 16° northwest. First snow of season fell in western and central part of State. Some locations in west received over 6 in. of snow first part of week. Every reporting station received more than 0.01 in. moisture except extreme northeast. South central received more than 1.00 in. of moisture.

Maturity and harvest progress of all late season crops except sunflower, well ahead of last year and average. Killing frost across State have hastened drydown of row crops, with harvesting expected this week. Soil moisture below last year and average. Topsoil moisture supplies 96% short or vey short and 4% adequate. Average 49% short or very short, 48% adequate and 3% surplus. Subsoil 100% short or very short. Condition of sunflower, corn and soybeans rate mostly fair. Percent harvested compared to last year and average: Sunflower 3, 11, 5; soybeans 48, 36, 24; corn grain 13, 30, 9; potatoes 87, 55, 61; flax 96, 86, 70; dry beans 98, 58, 60; sugarbeets 13, 16, 9.

OHIO: Temperatures 4 to 6° below normal. Range from low 30's to upper 80's. Cooler weather prevailed after midweek. Precipitation widespread, most from 0.50 to just over 1.00 in. range from 0.24 to 2.20 in. Four inch bare soil temperatures upper 50's to lower 60's.

Topsoil moisture 20% short, 70% adequate, 10% surplus, southeast very dry; 4.0 days suitable for fieldwork. Corn mature 75% 1984, 90% 1983, 80% average; harvested for grain 6% 1984, 15% 1983, 10% average. Soybeans dropping leaves 80% 1984, 90% 1983, 85% average; harvested 10% 1984, 25% 1983, 15% average. Winter wheat planted 15% 1984, 20% 1983, 20% average; emerged 0% 1984, 2% 1983, 1% average. Pasture condition fair to good.

OKLAHOMA: Temperatures averaged 8° below normal northeast, east central and south central to 13° below normal Panhandle. Precipitation averaged 0.13 in. west central to 2.45 in. southeast.

Dry soil conditions thwarted wheat seeding in west. Rain eastern localities enhanced wheat plantings but too late to boost row crop yield prospects. Wheat pasture availability concern in cattle-producing areas. Many "dusting in" seed. Some late-planted Panhandle sorghum will not produce grain from moisture shortage and hot weather. Summer's hot, dry weather severely damaged cotton and soybeans. Livestock marketing particularly heavy west. Cattlemen liquidating herds because of dwindling water and pasture supplies. Wheat, cotton and sorghum fair, livestock good to fair, pastures fair to poor condition. Wheat planted: 40%, 45% 1983, 20% average. Wheat up to stand: 5%, 10% 1983, 15% average. Sorghum coloring: 100%, 100% 1983, 98% average. Sorghum mature: 55%, 75% 1983, 70% average. Sorghum harvested: 15%, 15% 1983, 15% average. Cotton open bolls: 40%, 50% 1983, 50% average. Cotton harvested: 2%, 0% 1983, 1% average.

OREGON: Rainfall of 0.30 in. in northern portions; rest of State dry. Overnight lows around 20° dropped average temperatures to 14° below normal in extreme east. Western valleys had overnight lows around 35°, with average temperatures 4° cooler than normal.

The 1985 winter wheat crop 19% seeded; 24% 1983, and 31% average. The east 24% planted; west 1%. Statewide, 6% of the crop emerged. Spring grain harvest nearly complete, except Klamath County at 75%. Corn silage harvest continues. Hay cutting continues, season near completion. Fall grass seeding in Willamette Valley, also Red clover seed harvesting. Hood River Valley winter pear harvest at higher elevations. Newton and Golden Delicious apple harvest has begun. Wasco County apple harvest also started. Growers in Medford area nearly finished picking winter pears. Cranberry harvest just underway along southern coast. Brooks and Italian prunes still being picked in Willamette Valley. Filbert sweeping to begin this week. Hermistorn-Boardman growers continue digging Russet potatoes. Malheur potatoes look about average. In central areas potato digging just underway. Harvest of all vegetables continues in the Valley. Livestock in mostly good condition. In the east, cattle being moved off allotment.

PENNSYLVANIA: Early in the week a high pressure center stationary off the Carolina coast pumped warm moist air across the State. Showers, mostly light were reported in the west and north. On the 26th a strong cold front moved in bringing a sharp drop in temperature and scattered light rainfall. Frost occurred in many areas 27th and 30th early mornings. Rain and drizzle on the 27th and 28th totaled 0.50 in. or less. The weekend continued chilly and cloudy. The statewide average temperature was 57°, 1° below normal. Average precipitation was 0.36 in., 0.40 in. below normal. The precipitation average was below normal for the sixth consecutive week.

Days suitable: 5.0. Moisture, mostly short to adequate. Activities: Fall plowing; seeding small grains; making hay; harvesting ensilage, high moisture corn, green chop, potatoes, apples and cauliflower. Potatoes 73% harvested, last year 64%. Corn silage 45% harvested, last year 60%. Corn for grain 38% mature and 3% harvested, last year 46% mature and 4% harvested, average 46% mature and 4% harvested. Fall plowing 75% complete; last year 66%; average 74% complete. Barley 66% planted, the same as last year. Wheat 52% planted, last year 40%. Third crop alfalfa 90% harvested, last year 88%. Fourth crop alfalfa 46% harvested, last year 40%. Quality of hay made mostly good to fair. Feed from pastures average to below average.

PUERTO RICO: Island average rainfall 0.41 in. or 1.42 in. below normal. Highest weekly total 2.75 in. Highest 24-hour total 1.63 in. Temperatures averaged about 80° on coasts and 77 to 74° interior divisions. Mean station temperature ranged from 70.0 to 82.9°. Extremes 95 and 58°.

SOUTH CAROLINA: Weather varied from warmer than usual early week to below normal during end of week. The only effect of tropical storm Isidore was beneficial rains over eastern part of State. End of week rainfall was heaviest along south coast, 1.00 to 2.00 in. General rains, 0.50 to 1.00 in., fell across the rest of the State.

Soil moisture very short to short. Days available for fieldwork: 5.9. Corn condition fair to good: 86% harvested, 86% last year, 88% average. Cotton condition good; 77% open bolls, 98% last year, 87% average; 7% harvested, 22% last year, 21% average. Soybean condition poor to fair; 45% leaves turning, 37% last year, 42% average; 13% shedding leaves, 17% last year, 20% average; 10% mature, 3% last year, 6% average. Tobacco harvesting complete; 75% stalks destroyed, 67% last year. Apple condition good to excellent; 72% harvested, 64% last year, 81% average. Grape harvest continues, 85% harvested, 86% last year, 87% average; condition of grapes good to excellent. Fall hay harvest continue with fair conditions reported. Very dry soils continue to delay planting of winter grazing crops and land preparation for small grains.

SOUTH DAKOTA: Average temperatues were 11 to 19° below normal. Extremes: 81 and 8°. Precipitation was above normal northwest and east central, normal over remainder of State. Fourteen inches of snow fell in portions of the northwest, 1 to 4 in. fell in other isolated areas of the State.

Days suitable for fieldwork: 5.0. Topsoil moisture short over most of the State, critically short north central and southwest, adequate scattered. Subsoil short over most of State. Adequate central and east, critically short southwest. Cutting of corn and sorghum silage, hauling hay, and seeding winter grains were main farming activities. Freezing temperatures caused some damage to growing crops but hastened crop development for those already mature. Range and pastures fair to good east, good west. Sorghum harvested 6%, 1983 18%, average 14%. Sorghum 92%, 1983 100%, average 97%. Sorghum mature 60%, 1983 90%, average 75%. Corn harvested 4%, 1983 14%, average 8%. Corn mature 81%, 1983 96%, average 92%. Winter wheat planted 92%, 1983 93%, average 92%. Winter wheat emerged 62%, 1983 71%, average 70%.

TENNESSEE: An eastward moving high pressure system covered the State on the 24th. A cold front passed through on the 25th and 26th followed by a secondary front on the 28th. Light rain was received throughout the week. Temperatures averaged normal to slightly below normal. Extremes ranged from 92° (Knoxville) to 44° (Nashville).

Farmers averaged 6.0 days suitable for fieldwork. Soil moisture levels: 1% surplus, 15% adequate, 84% short. Corn mature: 85%, 1983 91%, average 87%; harvested: 19%, 1983 35%, average 28%. Cotton open bolls: 93%, 1983 95%, average 77%; harvested: 4%, 1983 21%, average 17%. Soybeans yellowing leaves: 75%, shedding leaves: 23%, 1983 38%, average 35%;

mature 4%, 1983 7%, average 7%. Tobacco harvested: barley: 94%, 1983 89%, average 89%; dark-fired: 90%, 1983 82%, average 87%; dark air-cured: 90%,1983 84%, average 89%. Wheat acreage sown: 9%, 1983 9%, average 15%. Sorghum coloring: 98%, mature: 51%, harvested: 16%. Pasture conditions in mostly poor conditions. Some supplemental feeding of livestock has begun.

TEXAS: Widely scattered showers, thunderstorms East and Southeast Texas first part week. Midweek, strong cold front northern part State Cold front brought considerable cloudiness, scattered showers, drizzle across Texas. Front stalled Lower Valley producing scattered showers over already saturated ground extreme South Texas. Skies beginning to clear, high pressure spread across State on 30th. Temperatures below normal. Rainfall ranged normal to above normal.

Crops: Most State cooler temperatures, as cold front passed through late week. Varied amounts rainfall accompanied cooler temperatures. Showers halted field operations Blacklands, Rio Grande Valley. Small grain planting continues where adequate moisture. Cooler temperatures High Plains slowed maturing crops. Ranges little or no growth many areas. Cotton Plains good growth despite cooler temperatures. Need additional open weather for further maturing. First bale ginned High Plains. Showers halted defoliant application. Harvesting continues Low Plains. Harvest winding down Blacklands; showers halted final harvest. Current condition 68% of normal compared with 57% last year. Reported conditions 3%, excellent; 55% good, 20% fair, 19% poor, and 4% failure. Corn harvesting advanced rapidly during week, until cold front brought rain, halted operations. Lodging minimal. Open weather, harvest should be winding down soon. Current condition 70% of normal. Reported conditions are 8% excellent, 44% good, 31% fair, 16% poor, and 1% failure. Sorghum High Plains nearing maturity, harvest begin soon. Small amounts cut to meet feedlot demands. Producers completed irrigation operations. Yields irrigated fields good. Low Plains harvesting continues. Cooler weather helped field operations. Current condition 68% of normal compared with 66% a year ago. Reported conditions 5% excellent, 47% good, 26% fair, 19% poor, and 3% failure. Peanut harvesting continues north, central regions; harvest slowed by showers. Irrigated fields good yields. Dryland fields drought stressed some areas, fields being cut for hay. Low yields reported dryland fields. Small grain planting continued where adequate moisture existed. Many producers wait for additional rain before sowing. Planted fields should benefit from showers accompanying front. Many wheat fields not emerged, lack of moisture. Early variety soybeans mostly harvested Upper Coast. Later varieties look good. Harvest begun Plains, good yields reported.

Cotton open bolls 40%, 56% 1983, 51% average; harvested 16%, 15% 1983, 17% average. Sorghum turning color 95%, 95% 1983, 95% average; mature 73%, 75% 1983, 78% average; harvested for grain 67%, 63% 1983, 70% average. Wheat planted all purposes 43%, 28% 1983, 40% average; emerged 16%, 5% 1983, 15% average. Corn harvested for grain 81%, 1983 85%, 71% average. Peanuts harvested 13%, 1983 11%, 23% average. Soybeans harvested 22%, 1983 8%, average 6%. Sugarbeets harvested 12%, 0% 1983, 0% average. Sunflowers harvested 27%, 1983 15%, average 23%. Oats planted for all purposes 26%, 25% 1983, 28% average.

Commercial vegetables: Rio Grande Valley, vegetables good progress. Fields drained well after heavy rains. Onion planting underway where soil conditions permitted Citrus trees growing well because rainfall. High Plains, harvest cucumbers, peppers continues. Carrot harvest gaining momentum, good crop reported. Fieldwork halted end of week because showers. Trans-Pecos, harvest cabbage, bell peppers continues, good crop reported. East Texas, sweetpotato harvest peaked, winding down. Yields irrigated fields good; quality down. Other vegetable planting gaining momentum. Pecans continue mature; prospects still low. Irrigated groves look good. Heavy droppage continues most areas. Shuck split completed early varieties South Texas.

Range and livestock: Growth range, pasture grasses little progress, except Trans-Pecos, Lower Valley where recent rainfall increased growth. Cattle marketing steady, producers liquidating herds for winter. Supplemental feeding heavy. Range, pasture conditions critically short many areas going into winter. Many producers plant small grains for pasture, supplement lack of grazing pasture.

UTAH: Precipitation ranged from very heavy in the north central and northern mountains to light in the other divisions except Dixie which had no precipitation. Temperatures were above normal in the Dixie division and from 2 to 7° below normal in the rest of the State.

Frost near midweek essentially stopped plant growth in all but sheltered areas of most of State. By week's end, 80% of corn for grain in dent stage. Corn for silage 1/3 harvested. Third crop alfalfa hay 2/3 made. Dry beans and tomatoes 75% harvested, dry onions 25%. Peach and pear harvest virtually complete. Apple harvest picking up; 15% picked. Movement of livestock from summer range in progress; 60% of sheep already off and 15% of cattle.

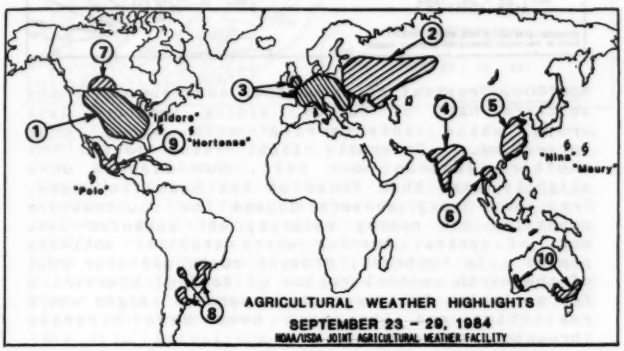
VIRGINIA: State remained under influence of high pressure system through most of period with rainfall occurring during last part. Temperatures averaged 1 to 2° above normal with precipitation averaging between 1.00 and 1.50 in.

Dry conditions persist despite light rain late during period. Condition of soybeans and pasture land declining. Peanut harvest and small grain planting hampered by dry weather. Topsoil moisture rated 98% short, 2% adequate. Days suitable for fieldwork average 5.9. Corn yields above average although harvest behind normal. Maturity reached by 87% of crop, 95% last year, 96% average. Harvest of grain corn 41% complete, 45% last year, 46% average. Silage 87% cut, 91% last year, 87% average. Soybean condition declining but still good. Dry weather especially hurting late planted soybeans. No insect problems so far. Harvest beginning but less than 1% harvested. Tobacco harvest almost complete. Good yields and quality reported. Flue-cured tobacco harvest 90% complete, 83% last year, 92% average. Dark-fire tobacco harvest 99% complete, 95% last year, 99% average. Burley harvest 98% complete, the same as last year and average. Sun-cured tobacco harvest near 90% complete. Peanut conditions good but dry weather has made harvest difficult. Harvest still ahead of normal, digging 27% complete, 6% last year, 17% average. Combining 17% complete, 3% last year, 10% average. Quality reported excellent, yields average.

(continued on back page)

International Weather and Crop Summary

Sept. 23 - 29



HIGHLIGHTS:

1. UNITED STATES ... An early freeze ends plant growth over most of the Rockies and northern and central Plains into the western Corn Belt. However, damage is light as most field crops are mature. Rain helps newly-seeded small grains from central Texas to Ohio. Persistent dryness delays wheat seeding and germination in the west central Plains and stresses soybeans in the Southeast.

2. USSR ... Showers delay harvesting on west European crops and the northern New Lands. Soils are becoming too dry for winter wheat planting in the southeast.

3. EUROPE ... Moisture over much of the region is abundant for planting winter wheat. Soils are too wet for corn harvesting in southwestern France, Italy, and western Romania.

4. SOUTH ASIA ... An early monsoon rain withdrawal could affect the winter rice grain filling stage. Precipitation in the south benefits the cotton beginning to form bolls.

5. EASTERN ASIA ... Persistent rains in the North China Plain hampers summer crop harvesting and winter wheat planting. Moderate rain aids part of the late rice in the filling stage.

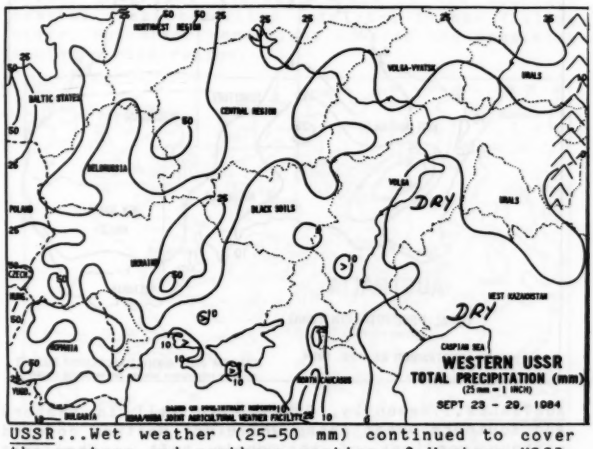
6. SOUTHEAST ASIA ... Tropical Depression Lynn possibly damages coastal rice in Vietnam. Beneficial rains cover Thai rice in the filling stage.

7. CANADA ... Cold weather and light snow covers the Prairie grain belt. Harvesting is nearly complete. However, northern Alberta's cold, wet weather slows the harvest and reduces crop quality.

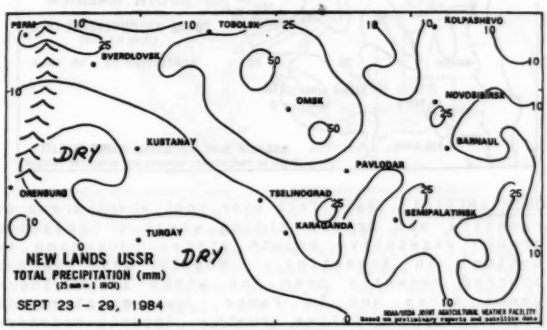
8. SOUTH AMERICA ... Rain falls over most wheat, aiding vegetative growth in Argentina but slowing ripening and harvesting in Brazil. Topsoil moisture is generally favorable for summer crop planting which begins soon in Argentina and is underway in Brazil.

9. MEXICO ... Tropical rains continue over the southern half; however, rain is light over the southern Plateau corn belt, aiding late immature crops but delaying early crop harvesting.

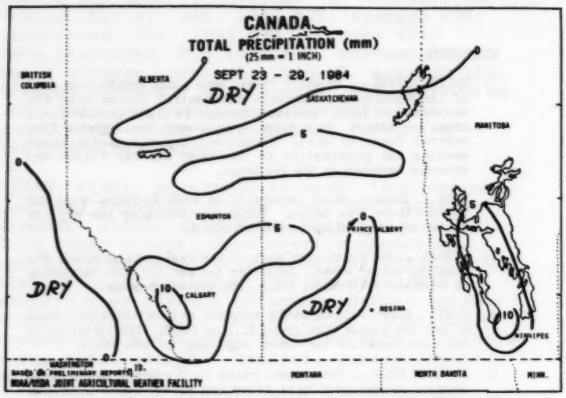
10. AUSTRALIA ... Light rain falls in the west and south where wheat's growth is vegetative. Dry weather covers the east where wheat heads. Weather remains favorable for crop development.



USSR...Wet weather (25-50 mm) continued to cover the western and northern portion of Western USSR, while crop areas in the southeast remained generally dry. The rainfall on the Baltic States, Belorussia, and the western half of the Ukraine delayed potato, sugar beet, and corn harvesting. Warm, dry weather covered the eastern Ukraine, southern Black Soils, southern Volga Valley, and parts of the North Caucasus since early September, allowing harvest activity to progress with few delays. However, soils in these areas are becoming too dry for winter wheat planting. Reports indicate that as of September 24, winter grains were planted on 78 percent of the fields. Winter wheat can be planted in the south as late as early October, but after early October; planting based on normal weather conditions may not ensure proper plant establishment before dormancy, making the crop more vulnerable to winterkill.



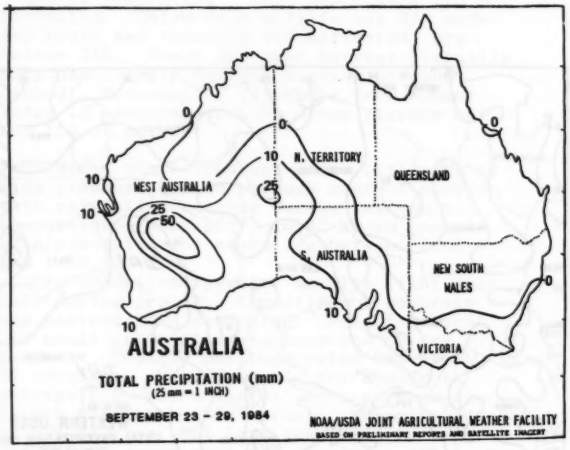
In the New Lands, wet weather (25-50 mm) covered northwestern and central spring wheat areas delaying the harvest. Lighter precipitation (10-25 mm) in eastern crop areas followed three weeks of favorable harvest weather. Weekly temperatures were below normal, making harvest conditions more difficult, particularly in those areas receiving precipitation. In the Far East USSR soybean areas, early week subfreezing temperatures ended the growing season.



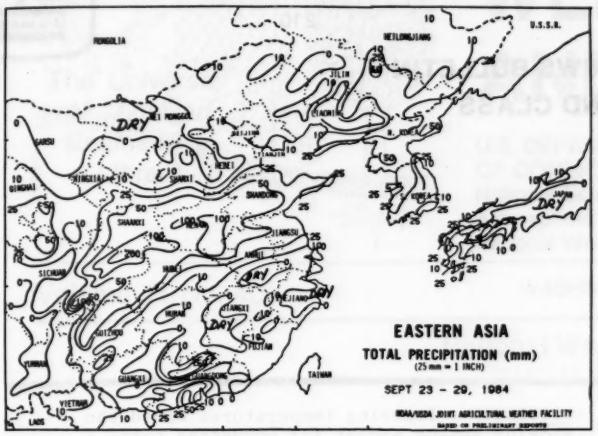
CANADA...Cold weather and light precipitation, mostly snow flurries, covered the Prairie Provinces. Harvesting is nearly complete in the grain belt, except in the northwest (mostly the northern Alberta crop areas) where unfavorable weather delayed harvesting and reduced crop quality. The wheat was over 95 percent swathed in Alberta, but only about 70 percent was combined. Minimum temperatures averaged about -4° C (25° F) in late September, but recent dry weather improved harvest conditions. Recent moisture has improved topsoils for winter grains establishment. However, substantial precipitation is needed to replenish subsoil moisture following the summer dryness over much of the grain belt.

MEXICO...Tropical rainy weather continued over the southern half of Nation, aiding immature late crops while interferring with early crop harvesting. Generally light rains dotted the southern Plateau corn belt, but amounts were slightly less than those of the past few weeks. Frequent, heavy showers doused the southeastern mountains and nearby valleys; and extended into most of central America where tropical activity peaked. In contrast, drought continued over most of the north central region of Mexico; however, a few sprinkles fell over these parched ranges where vegetation and livestock have been stressed throughout the summer.

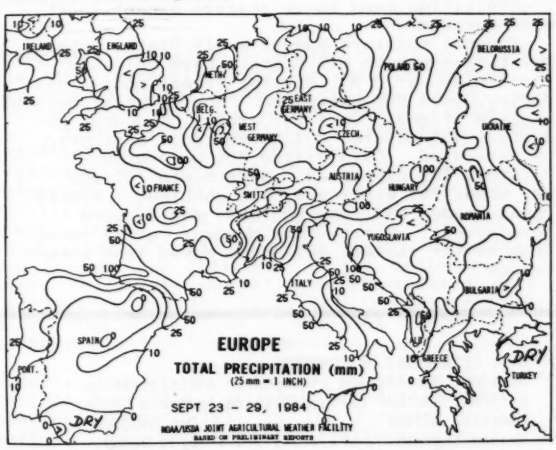
SOUTH AMERICA...Rain fell over most wheat areas of Argentina and Brazil aiding wheat progressing through vegetative growth stages (jointing to booting) in Argentina. Mostly dry weather occurred recently over the wheat in southern Buenos Aires and La Pampa, but moisture is adequate for vegetative growth. Topsoil moisture is favorable for summer crop planting, which will increase rapidly during October. Locally heavy rain fell over extreme northeastern Argentina, Uruguay, and in Brazil from western Rio Grande do Sul through Santa Catarina and Parana. The moisture delayed wheat harvesting again and recent wetness likely hurt the quality of maturing grain. Moisture is still needed for corn and cotton planting in Sao Paulo, while recent showers aided summer crop planting in southern Minas Gerais and extreme southern Mato Grosso do Sul.



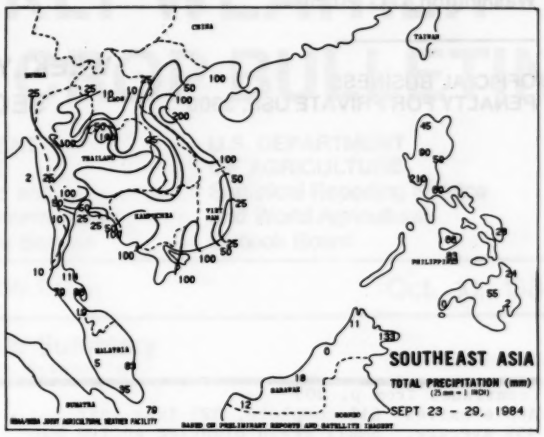
AUSTRALIA...Recently, light rain fell in western and southern wheat areas while dry weather covered eastern portions of the grain belt. Wheat is mostly in late vegetative growth, except in the east where it advances through heading in southeastern Queensland and northern New South Wales. Weather conditions during September remained favorable for crop development. Unusually heavy rain (25-50 mm) was reported recently in the arid region to the east of Western Australia's wheat area. Dry weather covered the northern half of the continent including nearly all of the sugarcane areas of east-coastal Queensland where harvesting is underway. Summer crop planting, including sorghum and cotton, will increase during the next few weeks in the east.



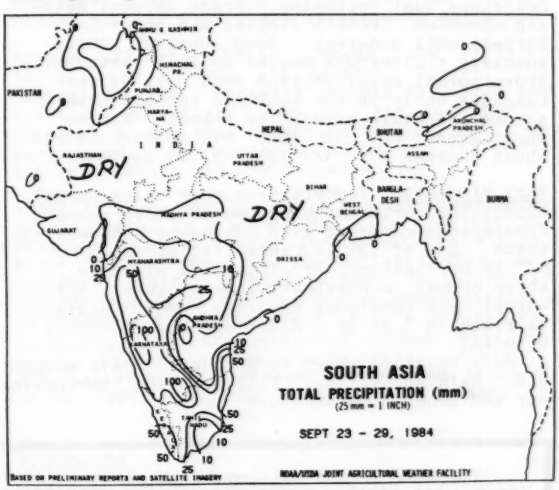
EASTERN ASIA...Recently, persistent rain in the central North China Plain hampered all field work. The precipitation was mostly moderate, but accumulations totaled 50-100 in Shandong through Guizhou. The rain delayed cotton, corn, and soybean harvesting, and likely caused cotton quality reductions. Temperatures averaged cooler than normal in much of the North China Plain. Winter wheat planting was also hampered in much of the region. Light showers (10-15 mm) benefited winter wheat emergence in eastern Hebei, which was very dry. Relatively dry weather prevailed in the lower Yangtze Valley, aiding cotton and intermediate rice harvesting. Mostly clear weather in the Manchurian Valley favored soybean and corn harvesting, but periods of light showers slowed progress. Variable rain in the southern coastal areas benefited late rice in the filling stage, but drier conditions covered the remaining southern rice region.



EUROPE...Showers over much of northern Europe were beneficial for winter grain planting. Wet weather (25-50 mm) continued covering southwestern France, Italy, and Romania, slowing the corn harvest start. Normally, corn for grain in southern Europe is harvested during October. However, cool, wet weather has likely delayed maturation, and the corn harvest will probably extend into November in many areas, particularly southwestern France. Heavy rains (50-100 mm) produced localized flooding in eastern Czechoslovakia and northern Hungary. Moisture for winter grain planting is abundant over most of the region. However, additional showers are needed in Spain before winter wheat can be planted.



SOUTHEAST ASIA...Precipitation increased over much of Indochina during the past few weeks. Recently, Tropical Depression Lynn struck northern Vietnam. Heavy rain (100-200 mm) likely caused coastal flooding and possibly damaged some rice. Moderate rain in much of Thailand was beneficial for south-central rice in the filling stage. Relatively drier weather in the north favored maturing rice. Moderate rain fell in central Thailand, but most corn harvesting has likely been completed. Moderate rain fell throughout the Philippines, benefiting lowland rice entering the heading stage.



SOUTH ASIA...Little or no precipitation fell in northern India recently. The dry weather was favorable for autumn rice and cotton harvesting. Winter rice is in the heading stage with adequate moisture. Monsoon activity has withdrawn from Bihar, West Bengal, and Orissa earlier than normal (these three provinces account for over 50 percent of winter rice production). Rain during late September and early October in this region normally supplies needed moisture for winter rice grain filling in October and early November. Moisture conditions across the north are favorable for wheat planting which normallly begins in October. Moderate to heavy rain (50-100 mm) in the south during the last few weeks benefited cotton entering the boll formation stage. Recent drier weather in Gujarat, Madhya Pradesh, Andhra Pradesh, and eastern Maharashtra favored maturing groundnuts.

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(continued from p. 20)
Apple harvest 51% complete, 32% last year, 45% average. Small grain planting active but may be delayed until soil moisture improves. Oats 28% seeded, 27% last year and average. Barley 18% seeded, 23% last year, 19% average. Wheat 6% planted, about normal. Dry weather good for hay harvesting but reseeded hay and pasture land may not germinate well.

WASHINGTON: Rain in east eased dry soil conditions but farmers continued to delay winter wheat seeding until more rains come. Dry bean harvest was nearing halfway point. Corn silage harvest underway. Golden Delicious apple harvest underway; Red Delicious just beginning. Grape harvest gaining momentum. Potato digging and onion harvest well underway. Feed supplies remain adequate. Livestock moving to fall pastures. Above normal precipitation fell east of the Cascades early in the week and temperatures across the State were below normal. Winter wheat seeded 60%, 59% 1983, 57% average; winter wheat emerged 47%, 46% 1983, 43.5% average.

WEST VIRGINIA: Temperatures were below normal except the northeast averaged 1° above normal. Frosts were reported over northeast and central areas. Low of 23° in Canaan Valley, high of 94° in Burlington. Precipitation slightly above normal in northeast and southwest, below normal over remainder of State. Most rainfall in Franklin 1.34 in., Bluefield had the least 0.19 in.

Soil moisture short to adequate. Days worked 4.6. Main activities: Filling silos, harvesting hay and general maintenance.

WISCONSIN: Freezing temperatures ended the growing season except for bordering Lake Michigan. Rainfall amounts were from 1.50 to 2.50 in.

Rains halted fieldwork in the east, but replenished soil in the south making plowing possible. Corn was 85% mature, 95% last year, 87% average. Only a few reports that the frost had come too soon. It was 7% harvested, 7% last year and 3% average. Some were harvesting high moisture corn and then drying it mechanically. Silo filling was 45% complete, 37% last year, and a 32% average. Soybean leaves were 70% shedded, 63% last year and a 62% average. Soybeans were 2% harvested, the same for last year and average. Hay fields were in generally good condition with a few still attempting to harvest it. Wheat and rye were being sown with a few fields sprouted.

WYOMING: Temperatures much below normal, near record cold. Averages 15 to 20° below normal. Precipitation much above average except southeast quarter.

Topsoil moisture adequate 81% State. Subsoil moisture adequate 67% State. Days suitable for fieldwork: 3.0. Killing freeze most areas. Barley, oats 90% harvested. Spring wheat harvest wind-up stages. Corn for grain; 5% dough, 30% dented, 45% mature, 20% harvested. Last year 5% harvested. Corn silage 80% harvested. Potatoes 70% harvested. Sugarbeets 10% dug. Dry beans 70% windrowed, 75% combined. Winter wheat seeded 95%, emerged 65%, mostly good development. Thirty-five percent cattle moved from summer ranges, 40% sheep moved from summer ranges.

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